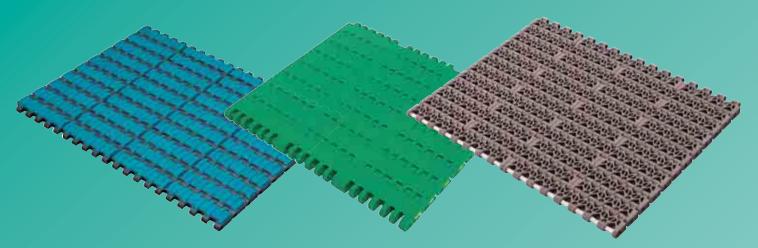


TSUBAKI TOP CHAIN



Innovation



Tsubaki Top Chains: The Result of Trust and Close Ties with Customers

We bring customers ideal chain solutions by putting our materials technology to work.

Comprehensive Product Selection

Wide Selection

Tsubaki's line-up of top chains offers an extensive range of features and constructions. We also have a wealth of accessories besides chains. If you're looking for a particular type of chain to suit your needs or improve work processes, you'll find it at Tsubaki.



Dedication to Quality and Technology

High Quality &Technology

Tsubaki's Kuki Plant meets the needs of worldwide customers through its long years of know-how, consistently high quality, and continuing quest for new technology. We believe that it's our dedication to quality and technology, along with our spirit of endeavor, that allow us to satisfy our customers.



Economical and Environmental

Environment

Today, more than ever, we must do all we can to reduce our environmental impact. By using the plastic chains that are core to our top chain line-up, customers can reduce their energy consumption and the man-hours needed for waste disposal. This makes our top chains economical and environmentally friendly.



in Motion

Our Mission

We aim to provide the best value and comprehensive solutions to our customers worldwide.

Our Vision

We aim to be a world-leading company in plastic chain products and modular conveyor systems.



Tsubaki Group Environmental Policy

Philosophy

The Tsubaki Group believes that environmental conservation is a critical challenge facing humanity. We will remain mindful of the environment in all our operations and contribute to the world through our workmanship.

Basic Policy

- We will acknowledge the environmental impact of our operations, products, and services. In the interests of environmental conservation, we will use our creativity to exhibit industry leadership in reducing our environmental load.
- We will create a management system for environmental conservation and will promote pollution control and continual improvement.
- We will strictly comply with environmental laws, rules, and regulations, and we will seek to develop good relationships with our stakeholders.
- Through environmental training and in-house public relations, we will work to enhance awareness of environmental conservation among all Tsubaki Group employees.

At the Kuki Plant, we strive to protect the environment by conducting green business activities and offering products and services with minimal environmental impact.



Kuki Plant

JOA-FM620

Tsubaki Top Chain Features and Line-up

Plastic Chain Features



Protects Conveyed Goods

Using a roller conveyor or steel chain to convey objects such as parts, manufactured items, pallets, and the like can result in damage from sliding or impact. The unique softness of plastic top plates makes them ideal for transporting products and materials that are easily scratched.



Simple Construction

Plastic chain consists of connecting pins and links with a top surface on which objects are carried. Links can be removed or replaced simply by removing the connecting pins—there's no need to remove bearing blocks, as is the case with flat belts. Attachments are available that can be removed with a flat-blade screwdriver.

Note: Except for steel-base chains.



Lightweight

Plastic chain is one-third the weight of stainless steel chain. In addition, using plastic pins (Plastic Pin series) provides a further 15% to 25% reduction in weight, minimizing required power and making handling easy.





Excellent Sliding Performance (Low Friction)

With a friction coefficient 30% to 60% lower than that of stainless steel, plastic chain requires less power and is less likely to cause conveyed objects to topple from frictional resistance. Whereas flat belts are prone to sudden rupture from sliding with conveyed objects, most plastic chain uses polyacetal resin, which offers superior sliding properties over a long service life.





Quiet Operation

Plastic chain is 5 dB to 7 dB quieter than stainless steel top chain, with less ear-jarring noise.



€C0

Sanitary

Plastic chain is sanitary because it will not rust or corrode. Food items and the like can be placed directly onto the links, and because this chain does not use lubricant, the work environment can be kept clean and sanitary.



Stainless Steel Top Chain Features



High Allowable Load

Maximum allowable load is approximately double that of TTP and TP series plastic top chains.



Heat Resistant

304 stainless steel top chains can be used in temperatures ranging from -20°C to 400°C.



Corrosion and Chemical Resistant

When all components are made from 304 stainless steel, these chains can serve as standard corrosion-resistant chains.



Plastic and Stainless Steel Chain Comparison Chart

Parameter	Plastic	Stainless Steel (SS)
Noise	−5 dB to −7 dB	With SS as 0
Weight	1/3	With SS as 1
Coefficient of friction	1/1.5 to 1/2.5	With SS as 1

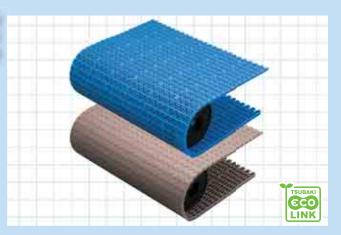
Parameter	Plastic	Stainless Steel (SS)
Operating temperature	-20°C to 80°C (with some exceptions)	-20°C to 400°C
Allowable load	1/2	With SS as 1

Plastic Modular Chain

Plastic Modular Chains use an alternating combination of interconnected modular engineering plastic links to transport goods in large quantities on wide, belt-shaped conveyors. Chain-sprocket engagement ensures reliable drive without any slippage. Different link types are available according to application and type of goods being conveyed: closed, open, net, and GTO-K types.

In addition, the line-up has been expanded to include magnetic, rubber, and flight types suitable for inclined conveyance.

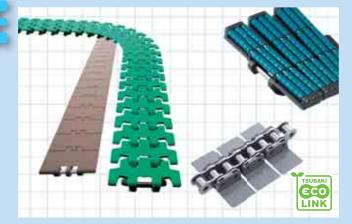
Conveying surfaces are available in widths as narrow as 50 mm. Plastic Modular Chain offers a wider conveying surface than Plastic Block Chain or Plastic Top Chain.



Plastic Top Chain

Top plates and chain parts are made of engineering plastic and are connected by pins. Another type features plates of engineering plastic combined with steel base chains. Yet another type includes rollers attached to a plastic top plate chain. The rollers rotate freely and reduce line pressure during accumulation.

Plate width ranges from 50 mm to 304.8 mm, and can be selected to match the objects being conveyed.

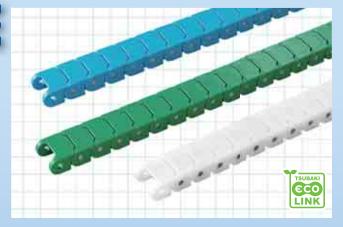


Plastic Block Chain

The small pitch of Plastic Block Chain allows smaller-diameter sprockets to be used, reducing the dead space between conveyors and ensuring smooth transfer of conveyed goods from one conveyor to another.

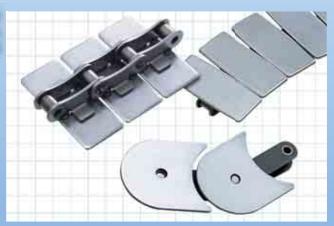
Plastic Block Chain features a simple construction in which block-shaped links are connected by pins.

Link width is narrow, ranging from 13 mm to 60 mm, enabling Plastic Block Chain to be installed in confined spaces.



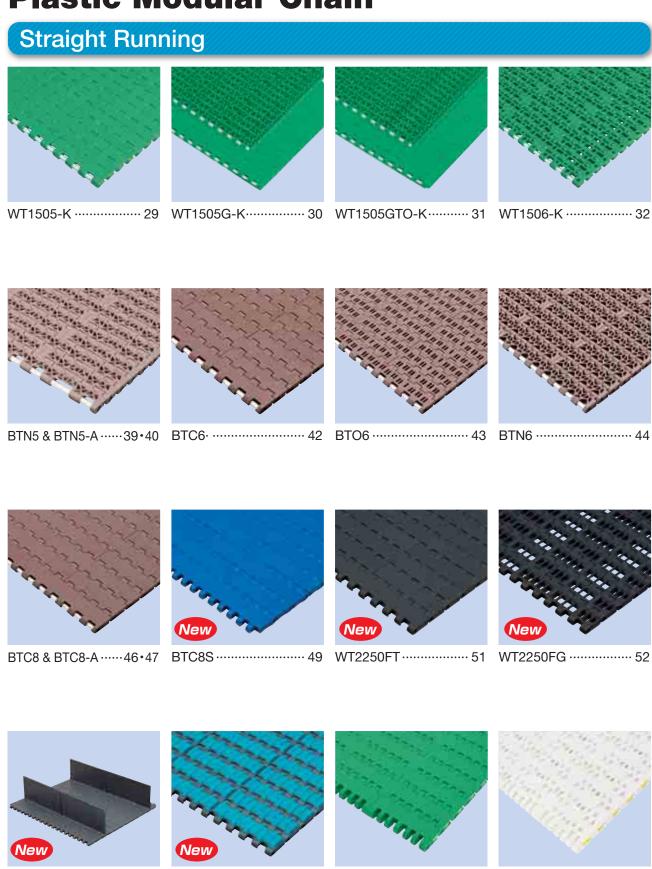
Stainless Steel Top Chain

Stainless steel top chain uses highly corrosion-resistant stainless steel for key components. Two styles are available: one in which top plates are integrated with the chain, and one in which the two components are separate and mechanically joined. Stainless steel top chain offers a higher maximum allowable load than standard plastic top chain.



Tsubaki Top Chain Line-up

Plastic Modular Chain



(Flight-Attachable Chain) · · 53

WT2250VG 55 WT2505-K 57 WT2506-K 58

Plastic Modular Chain

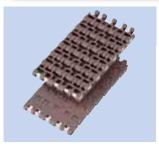
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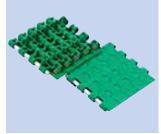
Tsubaki Top Chain Line-up

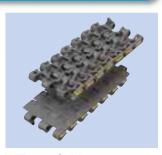
Plastic Modular Chain: Fixed-Width Type

Straight Running

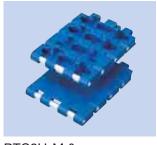




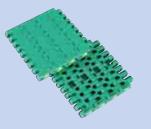




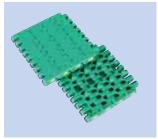
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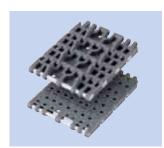


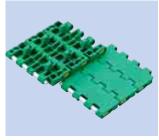


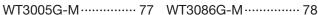




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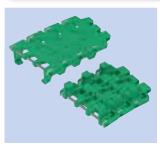








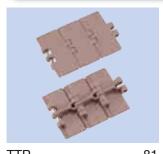
Sideflexing



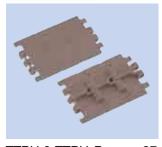
WT3085-C325 79

Plastic Top Chain

Straight Running

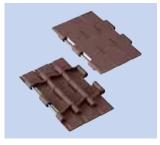


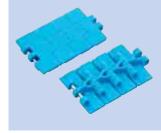






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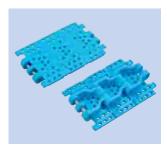


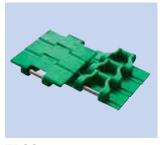






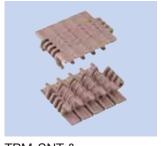


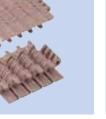




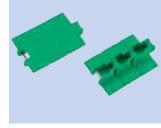


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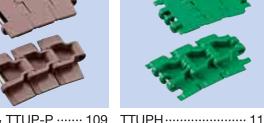
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Tsubaki Top Chain Line-up

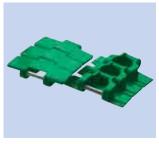
Plastic Top Chain

Sideflexing





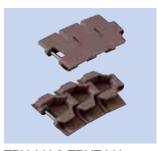


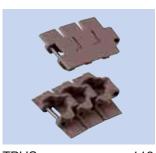


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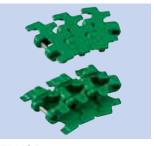


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Plastic Top Chain

Sideflexing









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Tsubaki Top Chain Line-up

Plastic Top Chain



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Plastic Top Chain

Chain with Accumulation Rollers









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Plastic Roller Table





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Tsubaki Top Chain Line-up

Plastic Block Chain

Straight Running









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Sideflexing





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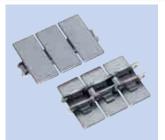


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Straight Running



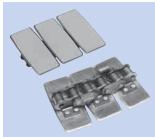


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Tsubaki Top Chain Line-up

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Top Chain Components

Chain Guide Parts









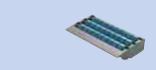


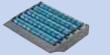












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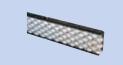
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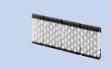
Guide Rails











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Roller module side guide

Top Chain Components

Product Guide Parts

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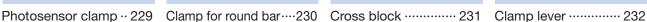
Guide Rail Clamps & Other Clamps









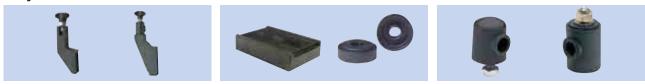






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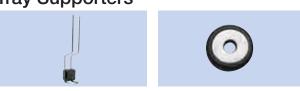








Tray Supporters



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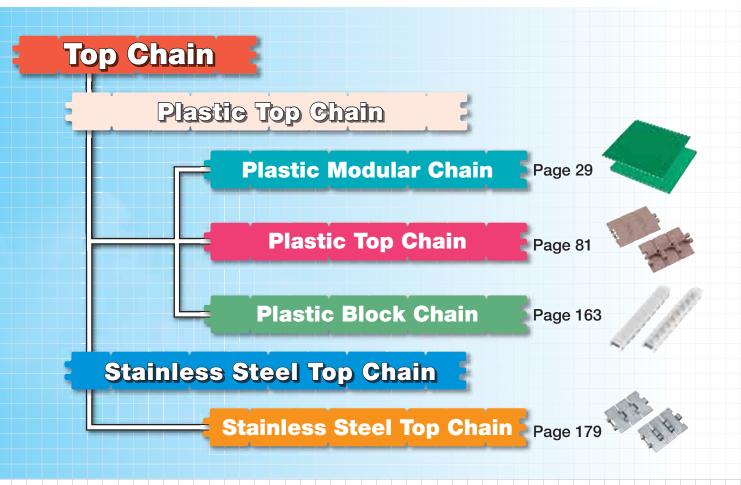




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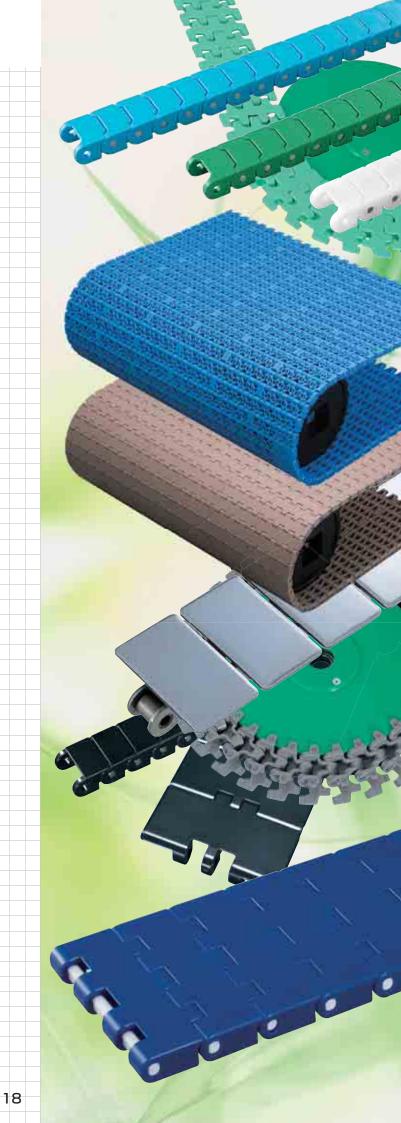
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Specifications (Plastic Chain Materials)

Standard Series

General-purpose polyacetal chain links





1. (General-purpose type)

Uses a commercial-grade polyacetal resin with excellent mechanical properties.

2. Antistatic

Features antistatic properties to prevent adhesion of dust and wear dust from static electricity (color: gray only).

Note: 1. Some products, such as plastic roller tables and universal chain, do not use the description "Standard Series."

2. For gray or white color, refer to specific product page.

LF

Low Friction/Anti-Wear Series

Low-friction wear-resistant polyacetal chain links

1. (Protects conveyed items

Coefficient of friction is 15% to 45% lower than Standard Series, resulting in reduced line pressure during accumulation and minimizing potential scratching or other damage to conveyed items.

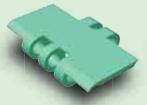
2. (Long life (compared to Standard Series)

Chain life is 1.2 to 2 times longer than Standard Series because of lower chain load.

- 3. (Smooth divergence and accumulation of conveyed items)
- 4. (Less required drive power)



LFW (color: white)



LFG (color: green)

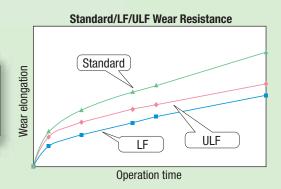


LFB (color: brown)

Three different chain link colors are available.

Applications

- Versatile type of chain that can be used in a wide range of applications
- Ideal in harsh conditions (high speeds, high loads) where chain elongation is accelerated resulting in short chain replacement cycles
- Ideal in high line pressure conditions where conveyed goods may be damaged

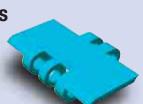




ULF 3

Ultra Low Friction Series

Ultra low friction polyacetal chain links



ULF (color: blue)

1. (Protects conveyed items

A special material incorporating a silicone-based lubricant significantly lowers the coefficient of friction by 15% to 30% compared to that of LF Series (under dry conditions). Line pressure is reduced during accumulation, minimizing potential scratching or other damage to conveyed items.

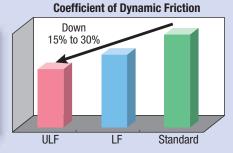
- 2. (Smooth divergence and accumulation of conveyed items)
- 3. (Less required drive power)

Caution: As ULF chain uses a silicone-based lubricant, refrain from using it where there is a risk of peeling during the printing process. Also, depending on usage conditions, ULF chain may generate more wear dust than LF chain.

Applications

- Ideal for conveying PET bottles and paper packs
- Ideal for use in accumulation areas just before casers and inspection equipment
- Ideal for combiners
- Ideal for reducing or eliminating lubricants (soapy water, etc.)
- When better slipperiness than the LF Series is desired

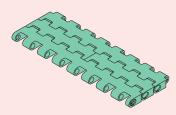




UL

Low Friction Series

Low-friction polyacetal chain links



UL (color: green)

1. Protects conveyed items

Coefficient of friction is 7% to 28% lower than Standard Series, resulting in reduced line pressure during accumulation and minimizing potential scratching or other damage to conveyed items.

- 2. (Smooth divergence and accumulation of conveyed items)
- 3. (Less required drive power)

Applications

- Versatile type of chain that can be used in a wide range of applications
- Ideal in high line pressure conditions where conveyed goods may be damaged

NLF

Low-friction polyacetal chain links



NLF (color: dark gray)

Low Friction Series

1. (Protects conveyed items)

Coefficient of friction is 10% to 30% lower than Standard Series, resulting in reduced line pressure during accumulation and minimizing potential scratching or other damage to conveyed items.

- 2. (Smooth divergence and accumulation of conveyed items)
- 3. (Less required drive power)

Applications

- Versatile type of chain that can be used in a wide range of applications
- Ideal in high line pressure conditions where conveyed goods may be damaged

WR

Low Friction Series (WR)

Corrosion-resistant polyacetal chain links



WR (color: green)

Applications

- When using chemicals such as sodium hypochlorite
- ldeal in high line pressure conditions that can damage goods

1. Protects conveyed items

Coefficient of friction is 7% to 28% lower than Standard Series, resulting in reduced line pressure during accumulation and minimizing potential scratching or other damage to conveyed items.

2. Corrosion resistant

Improved resistance to corrosion from sodium hypochlorite and similar chemicals. Ideal for food and beverage conveyors.

- 3. (Smooth divergence and accumulation of conveyed items)
- 4. (Less required drive power)

Y

Chemical Resistant Series

Special engineering plastic chain links

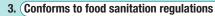


1. Chemical resistant

These chains are designed to resist most organic solvents, inorganic salts, acids, alkalis, and oxidizers.

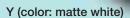
2. (Impact resistant

Plastic has greater resistance to chipping and shattering than Standard Series.



Manufactured from materials in accordance with Japan's Food Sanitation Act.

A Super Chemical Resistant Series (SY) is also available with titanium connecting pins for even greater chemical resistance. (Refer to product pages.)



Applications

- Onveyors for production lines for lithium-ion batteries and similar products
- Conveyors for batteries
- Chemical cleaning processes for printed circuit boards and silicon wafers
- Conveyors in food processing plants that use chlorine-based cleaning solutions (lines for products that contain acid such as vinegar and retort packaging lines)



E

Electroconductive Series

Special engineering plastic chain links



1. Electroconductive

Superior electroconductivity compared to Standard Series, with specific volume resistivity of $10^6\Omega$ cm or less (specific volume resistivity of Standard Series is 10^{14} to $10^{15}\Omega$ cm).

2. (Antistatic

Outstanding electroconductivity prevents electrical noise and sparking.

3. (Conforms to food sanitation regulations

Manufactured from materials in accordance with Japan's Food Sanitation Act.

Note: When using steel sprockets and rails, the entire conveyor should be grounded.

Applications

- Conveying printed circuit boards after soldering
- Protection against sparking (electrostatic discharge) after accumulation or washing/drying machines
- Conveying automotive parts (electrical components)
- Conveying solar panels to cutting machines before and after the lamination process
- Applications in which a black-colored chain is desirable



KV

Heat Resistant/High Speed Series

Special engineering plastic chain links

KV150/KV180/KV250 (color: black)

1. (Heat resistant)

Withstands temperatures up to 150°C (KV150), 180°C (KV180), or 250°C (KV250).

2. (High conveyance speed)

Can be used at speeds up to 200 m/min (for Plastic Top Chain).

3. Chemical resistant

Excellent resistance to chemicals used for cleaning and sterilization.

4. Electroconductive

Surface electrical resistance is low ($10^6\Omega$) and the chain does not generate static electricity. Suitable for preventing dust adhesion and sparks.

5. (Fire resistant

Conforms to UL standard V-O classification (UL's highest flame-resistant classification). (Except KV150)

6. (Conforms to food sanitation regulations)

Manufactured from materials in accordance with Japan's Food Sanitation Act. (Except KV150)

Note: 2 dB to 3 dB louder compared to Standard Series chains. KV150 is specifically designed for use in dry environments

Applications

- Shrink packaging
- Drying lines
- High-speed conveyor lines for empty cans
- Conveyors for before and after drink fillers
- Where polyacetal chain links are prone to corrosion by chemicals





HS

High Speed Series

Special engineering plastic chain links

1. (High speed)

High limiting PV value of 230 m/min (straight line).

2. Conforms to food sanitation regulations

Manufactured from materials in accordance with Japan's Food Sanitation Act.

HS (color: cream)

Applications

High-speed conveyor lines for filled or empty cans

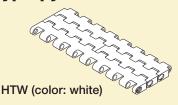
Notes on use:

- Dry environments only.
- · Available only with stainless steel pins.
- Allowable load is approximately 80% of Standard Series.
- Stainless steel rails (polished) should be used for high-speed applications.

HTW

Heat Resistant Series

Polypropylene chain links



Applications

- Ohain for use in warmers and coolers in beverage plants
- Conveyors for batteries
- Slightly inclined conveyors

1. Maximum usable temperature: 105°C

Ideal chain for use in coolers and warmers in beverage plants where hot water is used.

2. Chemical resistant

Excellent chemical resistance, including to acids and alkaline substances.

3. (High friction)

Coefficient of friction is 1.2 to 1.6 times the Standard Series. Can be used at a slight incline under dry conditions.

4. Lightweight

About 40% lighter than polyacetal chain. Easy to handle and can reduce drive power requirements.

Note: Max. allowable load is approx. 40% of Standard Series

MWS }

Antibacterial/Mold Resistant Series

Low-friction wear-resistant polyacetal chain links with antimicrobial formula



MWS (color: cream)

Applications

- Ideal for cleaning measures in bottling factories
- For food conveyors where food is placed directly on the conveyor or where cans are sealed
- Ideal in wet conditions caused by moisture and dew condensation (especially the exit and entrance of shower equipment, retort unloader, etc.)
- Ideal for mold prevention and conditions where the conveyor becomes dirty easily from the surrounding environment

1. Excellent antibacterial and mold resistant properties

This chain employs a proprietary antimicrobial agent. As well as being effective against bacteria such as colon bacillus (E.coli), staphylococcus, and lactobacillus, its anti-mold properties are effective against blue and other forms of mold.

2. (Long lasting)

The antimicrobial agent is inorganic and is mixed uniformly into the plastic material during the manufacturing process. Even if wear eventually occurs on the chain surface, the antibacterial and anti-mold functions remain strong.

3. (Safe

Worry-free due to highly safe antimicrobial agents. The base material complies with Japan's Food Sanitation Act (Ministry of Health, Labour and Welfare Notification No. 20), and additional antimicrobial and anti-mold functions make this chain suitable for use in food-related applications.

4. (Advanced functions)

The link materials are made of low-friction/anti-wear material. Virtually no change in performance arises from the addition of antimicrobial agents, ensuring superb low-friction and anti-wear properties.

Antibacterial/Anti-Mold Features

Status after 24 hours at 35°C (saccharomyces)

LF equivalent	MWS

Note: Test method

Antimicrobial Products: Test for Antimicrobial Activity and Efficacy I (1995), in accordance with film contact method

- · Organization contracted to perform test: Japan Food Research
- Date certificate of analysis issued: August 6, 1997
- Certificate of analysis issue number: No. 397050652-002

Test Results for Antimicrobial Activity (Compared to LF Equivalent Chain)

Test strain	Test specimen	Immediately after inoculation		After 24 hours at 35°C
E. coli	MWS	2.4×10 ⁵	\Rightarrow	Not detected
E. COII	LF equivalent	2.4×10 ⁵	\Rightarrow	2.0×10 ⁷
Staphylococcus	MWS	1.4×10 ⁵	\Rightarrow	Not detected
aureus	LF equivalent	1.4×10 ⁵	\Longrightarrow	2.9×10 ⁴
Saccharomyces	MWS	2.1×10 ³	\Rightarrow	Not detected
(a type of yeast)	LF equivalent	2.1×10 ³	\Rightarrow	7.9×10 ²
Lastobasillus	MWS	1.2×10 ⁴	\Rightarrow	Not detected
Lactobacillus	LF equivalent	1.2×10 ⁴	\Rightarrow	50
Pathogenic E. coli	MWS	6.0×10 ⁴	\Rightarrow	Not detected
0-157 (H7)	LF equivalent	6.0×10 ⁴	\Rightarrow	1.8×10³

Fungal Growth Test Results (Compared to LF Equivalent Chain)

Test fungus	Test specimen	After 7 days	After 14 days	After 21 days
Divomald	MWS	0	0	0
Blue mold	LF equivalent	1	1	3

■ Method of Rating Test Results

Rating	Description
0	No fungus growth evident
1	Trace fungus growth evident (coverage of less than 10% of surface of test specimen)
2	Light fungus growth evident (coverage of 10% to 30% of surface of test specimen)
3	Moderate fungus growth evident (coverage of 30% to 60% of surface of test specimen)
4	Heavy fungus growth evident (coverage greater than 60% of surface of test specimen)

Note: Test method

Conforms to ASTM G21 (Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi)

- Organization contracted to perform test: Japan Food Research Laboratories
 Date certificate of analysis issued: July 18, 1997



MPD/MPW 3

Metal Detectable Series

Special engineering plastic chain links

MPD/MPW (color: black)

Applications

- Conveyors on which foodstuffs are carried directly on the chain surface before entering packaging machinery
- Food (such as frozen noodles) can be placed directly on the chain surface (MPW)
- Transporting of trays in bakeries (MPD)

1. Can be detected by a metal detector

In the unlikely event that a conventional plastic chain breaks, chips or fragments of the broken chain cannot be detected by metal detectors. However, the plastic material used in these chains is metal detectable, preventing food contamination.

2. Impact resistant

Does not chip easily even when chain is subjected to mechanical shock.

3. Conforms to food sanitation regulations

Manufactured from materials in accordance with Japan's Food Sanitation Act.

4. Usage environment

MPD: Dry environments MPW: Wet environments

5. (Allowable load MPD: Approx. 80% of Standard Series MPW: Approx. 40% of Standard Series

DIA

Impact Resistant Series for Dry Environments

Special engineering plastic chain links

DIA (color: cream)

Applications

- Transporting of trays in bakeries
- Dry transport of foodstuffs placed directly on the chain
- Slightly inclined food transport conveyors

1. Super-high impact resistance

Plastic resists chipping even if the chain is subjected to mechanical impact. In addition, in the unlikely event that the chain breaks, the plastic tends not to shatter.

2. (High friction)

Coefficient of friction is 1.2 times the Standard Series. Can be used at a slight incline under dry conditions.

3. Conforms to food sanitation regulations

Manufactured from materials in accordance with Japan's Food Sanitation Act.

4. Lightweight

About 20% lighter than polyacetal top chain. Easy to handle and can reduce drive power requirements.

DIA >> DIY > Standard Series
Better Worse

Caution: This chain is specifically designed for use in dry environments. Do not use in wet conditions, such as conveyor applications involving exposure to water or with water lubrication.

Impact resistance

(resistance to chipping or shattering when subjected to mechanical impact)

mpact) exposu

DIY

Impact Resistant Series for Wet and Dry Environments

Special engineering plastic chain links

DIY (color: green)

Applications

- Transporting of food items or containers in wet environments
- Situations in which equipment is frequently disinfected
- Situations in which using polyacetal chain—where there is the chance of chipping or shattering—would be problematic

1. (Highly impact resistant

Compared to polyacetal plastic chain, this plastic is more resistant to chipping or shattering even when the chain is subjected to mechanical impact.

2. Chemical resistant

Excellent resistance to chemicals used for cleaning and sterilization. Suitable for conveyor equipment that is sterilized or cleaned frequently.

3. Non-sticky

Conveyed objects tend not to stick to the chain.

4. UV resistant

Excellent weatherability compared to polyacetal plastic chain.

5. Conforms to food sanitation regulations

Manufactured from materials in accordance with Japan's Food Sanitation Act.

Impact resistance

(resistance to chipping or shattering when subjected to mechanical impact)

Caution: Plastic fragments may shatter under certain conditions, such as use at low temperatures.



Series	Features, Applications	Notes
Freezer (LTW)	Link: Polyethylene (white) Pin: Polyethylene Conveyor applications for freezers Suitable for conveying in low-temperature environments	Allowable load is about 33% of Standard Series Operating temperature range: -70° to 60°C Supported chain configurations: BTN5, BTC6, BTN6, and BTC8 Plastic Modular Chain
Electrostatic Preventive (SE)	 Link: Special polyacetal (gray) Pin: 304 stainless steel, plastic Specific volume resistivity: 1 X 10¹³Ω · cm (Standard Series 1 X 10¹⁴ to ¹⁵Ω · cm) Counters dust and wear dust adhesion by static electricity (counters static electricity when conveyance is dry) Antistatic properties have been added to Standard Series gray- and green-colored chain 	Allowable load is equal to that of Standard Series Coefficient of friction is equal to that of Standard Series Knurled pin type: Available Plastic pin type: Available When using steel sprockets and rails, the entire conveyor should be grounded. Operating temperature range: -20° to 80°C (upper limit is 60°C for plastic pins in wet environments)
Middle Friction (MF)	Link: Yellow Pin: Plastic Material has a moderate degree of friction; ideal for incline conveyors Dry environments only	 Allowable load is about 75% of Standard Series Coefficient of friction is 1.1 times the Standard Series Stainless steel pin type: Not available Plastic pin type: Available Operating temperature range: -20° to 80°C (dry environments only)
Super Chemical Resistant (SY)	Link: Special engineering plastic (matte white) Pin: Titanium (diamond knurled) Y Series pin changed to titanium, thereby enhancing chemical resistance	Allowable load is about 50% of Standard Series Coefficient of friction is equal to that of Standard Series D-pin type: Not available Plastic pin type: Not available DO NOT use in locations where open flames are present or in high-temperature environments Operating temperature range: -20° to 80°C
Acid Resistant (AR) • Link: Special engineering plastic (white) • Pin: 304 stainless steel • Compared to Standard and LF Series, corrosion resistance is excellent; however, affected by strong acids and alkalis • Resists corrosion by soapy water containing sodium hypochlorite		Allowable load is about 90% of Standard Series Coefficient of friction is equal to that of Standard Series Plastic pin type: Not available DO NOT use in an environment where exposed to water of a temperature greater than 60°C Operating temperature range: -20° to 80°C (upper limit is 60°C in wet environments)
High Friction (HF)	Link: Special polyacetal (cream) Pin: 304 stainless steel, plastic Ideal for incline conveyors, etc.	Allowable load is about 50% of Standard Series Coefficient of friction is 1.1 times the Standard Series Knurled pin type: Not available Plastic pin type: Available Operating temperature range: -20° to 50°C (dry environments only)
Ultraviolet Resistant (UVR)	Link: Special polyacetal (light gray) Pin: 304 stainless steel, plastic Excellent resistance to outdoor ultraviolet degradation (discoloration, loss of strength) compared to Standard and LF Series	Allowable load is equal to that of Standard Series Coefficient of friction is equal to that of Standard Series Knurled pin type: Not available Plastic pin type: Available Operating temperature range: -20° to 80°C (upper limit is 60°C for plastic pins in wet environments)

Vote:

- Specifications other than those listed above can be manufactured to suit various customer environments. Contact a Tsubaki representative for details.
- Contact a Tsubaki representative regarding availability of the above specifications for specific chain types.

Pin specifications

- D-pins
- Pin cross-section has a "D" shape with a protrusion. This protrusion engages the link body and prevents the pin from coming out.
- Knurled pins
- A knurling process is applied to one end of the connecting pin. The knurled part is press-fit into the link body to prevent the pin from coming out.

For details, please refer to Pin Shapes on the following page.

Pin Specifications

Pin Materials

Plastic Pins

Special engineering plastic is used instead of stainless steel



(Allowable load roughly equal to stainless steel pins (80% to 100%))
 Improvements have been made to the structure of the thick plastic pins and hinges.

2. (Long life)

A combination of proprietary Tsubaki materials allows the chain to exhibit outstanding wear resistance between the pin and bushes under dry, soapy water, or wet conditions. The chain works particularly well when using water as the lubricant.

3. (Lightweight)

15% to 25% lighter than stainless steel pin top chains. Easy to handle and effective in reducing noise and required power.

4. (Easy disposal)

As the entire chain is made of plastic, it can be disposed of as is.

5. (Conforms to food sanitation regulations)

The links and pins are manufactured from materials that are in accordance with Japan's Food Sanitation Act.

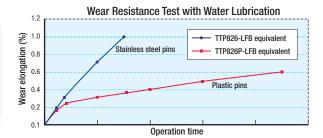
Note: Operating temperature up to 60°C is allowed when plastic pin chains are used in wet conditions.

Applications

Easy disposal
Electromagnetic
Waves

- Easy disposal

 Reduced disposal costs
 - Metal detectors, heating equipment, others
- Water lubricant Ideal when wear life is shortened due to the use of stainless steel pins



Stainless Steel Pins

Features

Applications

- · Most commonly used connecting pins in the world
- · Assured allowable load: Supports top chain strength
- Ideal for situations that demand heat resistance, such as exposure to ambient hot temperatures or water temperatures greater than 60°C

D-Pins D-pin Protrusion prevents pin from coming out

■ Press fit (knurled pin)

- When the shafts and holes are fitted together, there is a continuous interferential fit.

 The third shafts and holes are fitted together, there is a continuous interferential fit.

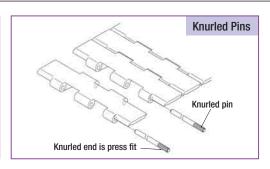
 The third shafts and holes are fitted together, there is a continuous interferential fit.

 The third shafts and holes are fitted together, there is a continuous interferential fit.
- The tolerance zone of the hole is below the tolerance zone of the shaft (pin or bush).

■ Loose fit (D-pin)

- When the shafts and holes are fitted together, there is a continuous loose fit.
- The tolerance zone of the hole is above the tolerance zone of the shaft (pin or bush).

■ Tsubaki recommends loose-fit D-pins.



■ Knurled pins and D-pins

- Chain strength and other performance factors are identical.
- D-pins are particularly recommended for use in the following operating environments:
- Operating temperatures are either higher or lower than normal
- When the chain will be exposed to chemicals
- When the chain will be exposed to ultraviolet light (outdoor use)

Note: Usable chain shape will vary according to chain type and other specifications.

PΙ	astic	Chain	Inquiry	Sheet
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Company Name:

Name: Date:

1. Equipment					
2. Conveyed Object	1) Conveyed Object				
	② Material	Steel / Aluminum / Paper / Glass / Plastic			
	③ Mass	kg/pc			
	4 Dimensions	(square object) mm x mm x height mm			
		(round object) mm diameter x height mm			
	⑤ Shape of Bottom	Flat / Raised / Other			
	Static Electricity	Possibility of damage due to static electricity: Yes / No			
3. Conveyor	1) Straight Running or	Straight running / Sideflexing (sideflex radius: sideflex angle:)			
Arrangement	Sideflexing	orangin ramming / orannoving (orannovinada).			
	② Conveyor Length	m			
	③ Layout	Sketch the layout in the space below.			
4. Conveying	Conveying Speed	m / min			
Conditions	② Interval/Spacing				
	between Conveyed	(interval) mm, (amount) pc/m			
	Objects, Conveyance	(and the first of			
	Amount				
	③ Operating Time	hours/day hours/year			
	4 Lubrication	None / Yes (soapy water / water/ other)			
	Accumulation	No / Yes			
	6 Wearstrip Material	Steel / Stainless steel / PMW plastic rail / M plastic rail / Solidur (P plastic rail)			
	7 Support on Return Way	Rollers / Rail			
	® Impact	No / Yes (description:			
5. Environment	1) Temperature	Normal temperature (-10°C to 40°C) / Other (°C to °C)			
	2 Corrosive Conditions	Chemicals, etc. (name:			
	(chemicals, disinfectants,	(concentration %, usage frequency times)			
	detergents, etc.)	Water, humidity (%)			
	3 Abrasive Conditions	None / Yes (glass fragments / paint chips / metal powder / sand / other)			
C. Oleaka Niverska av	4 Other	Volatile gases : None / Yes (
6. Chain Number7. Sprocket Number		(no. of teeth			
		, ,			
		veyor layout, shape of conveyed objects, method of support on the return			
way, and other rema	rks				

	_
ر	

Division:

Tel.:

Fax:

BTM8H (Wide Type) Plastic Modular Chain Inquiry Sheet

When configuring an inclined conveyor using magnetic BTM8H Plastic Modular Chain, conveyor design must take into account operating conditions such as the type of objects to be conveyed and the inclination angle. Please give us the following information regarding your use of BTM8H Modular Plastic Chain.

Company Name	Name	
Tel.	Fax	

	Description	New installation / Remodeling (type of	conveyor on existing	equipment:
Equipment	Conveyor Length	m	Conveyor Width	mm
	Inclination Angle	degrees	Direction	Upward / Downward
	Object		Mass	kg/pc
Conveyed Object	Characteristics	Magnetic / Non-magnetic	Magnetic Attraction to Conveyed Object	Acceptable / Not acceptable
	Shape	Flat / Square / Cylindrical / Other	Shape of Bottom	Flat / Raised / Other
Conveying	Speed	m/min	Amount	piece/min
Conditions	Impact	No / Yes (description:)	Accumulation	No / Yes
Environment	Ambient Temperature	°C to °C	Temperature of Conveyed Object	°C to °C

Special Configuration Availability Chart

◆ Plastic Modular Chain							
Specifications (Plastic Chain Materials)	Electrostatic Preventive	Middle Friction	Acid Resistant	High Friction	UV Resistant		
,	SE	MF	AR	HF	UVR		
WT1505-K	(※)	A	×	×	×		
WT1505G-K	(※)	•	×	×	×		
WT1505GT0-K	(※)	×	×	×	×		
WT1506-K	(※)	A	×	×	×		
BTN5/BTN5-A	(※)	×	×	×	0		
BTC6	(※)	×	×	0			
BT06	(※)	×	×	0			
BTN6	(※)	×	×	0			
BTC8/BTC8-A	(※)	×	×	0			
WT2505-K	(※)	A	×	×	×		
WT2506-K	×	×	×	×	×		
BTM8H	×	×	×	×	×		
WT3005-K	(※)	A	×	×	×		
WT3005G-K	(%)	A	×	×	×		
WT3086-K	(※)	A	×	×	×		
WT3086G-K	(※)	A	×	×	X		
WT3816-K	×	×	×	×	×		
BTC4-M	(※)	×	×	0			
WT1505G-M	(※)	0	×	×	×		
WT1505GTO-M	(※)	×	×	×	×		
WT1515G-M	(*)	A	×	×	×		
BTC8H-M	×	×	×	×			
BTM8H-M	×	×	×	×	×		
WT2505-M	(%)	A	×	×	×		
WT2505G-M	(※)	A	×	×	×		
BTO8-M	(※)	×	×	0	0		
WT3005G-M	(※)		X	×	×		
WT3086G-M	(※)	A	X	X	X		
WT3085-C325	(*)	×	×	×	×		

¥ 1 100110 10	o ona				
Specifications (Plastic Chain Materials)	Electrostatic Preventive	Middle Friction	Acid Resistant	High Friction	UV Resistant
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	SE	MF	AR	HF	UVR
TTP	(※)	×	0	0	0
TTP-P	(%) (%) (%)	0	×	0	0
TTPH	(※)	×	0	0	0
TTPH-P	(*)	×	×	0	0
TTPM	(%)	l ×	×	×	×
TPF	(※)	×	0	0	0
TP-OTD	(※)	×	×	×	× 0
TPS	(※)	×	0	0	0
TPS-P	(※)	×	×	0	0
TPH	(※)	×	0	0	0
TPH-P	(<u>*</u>)	×	×	0	Ŏ
TPSS	(※)	×	×	×	×
TPM	(※)	×			
TPM-SN/TPM-P-SN	(*)	×	×	×	×
TPRF2040	0	×	0	0	0
TPRF2060	(※)	×	0	0	0
TTUP	(*)	×	0	0	0
TTUP-P	(*)		×	0	0
TTUPH	(*)	×		0	0
TTUPS	(※)	×	×	×	×
TTUPM-P	(※)	×	×	×	×
TPU	(※)	×			
TPU-P	(※)	×	×	×	×
TP-880TAB	(%)	×	×	×	×
TPUM	(*)	×	0	0	0
TPUSR550/TPUSR826	(※)	X	0	0	0
TP-UB36	(※)	×	×	×	×
TPUN	(※)	×	Ó	×	
TP-50UNS/-D76/-T95	(※)	X X	×	×	×
TP-36AK1	(*)		×	×	×

Plastic Top Chain

Specifications (Plastic Chain Materials)	Electrostatic Preventive	Middle Friction	Acid Resistant	High Friction	UV Resistant
<i>'</i>	SE	MF	AR	HF	UVR
TN	(%)	×	×	×	0
TNU	(%)	×	×	×	0
TP-PT	(※)	×	×	×	×
TP-PTS	(%)	×	×	×	×
TP-1873-T	(%)	×	×	×	×

◆ Plastic Block Chain								
Specifications (Plastic Chain Materials)	Electrostatic Preventive	Middle Friction	Acid Resistant	High Friction	UV Resistant			
	SE	MF	AR	HF	UVR			
RSP35	0	×	0	0	0			
RSP40	0	×	0	0	0			
RSP50	0	×	0	0	0			
RSP60	0	×	0	0	0			
RSP40P	0	×	×	0	0			
RSP60P	0	×	×	0	0			
RSP-SL	0	×	0	0	0			
RSP-P08PF	(%)	×	×	×	×			
RSP-P08PFT	(%)	×	×	×	×			
RSP60-2	(*)	×	0	0	0			
RSP60-CU	0	×	0	0	0			
RSP60P-CU	0	×	×	Ô	Ó			
RSP60-CU-2	(※)	×	0	0	0			

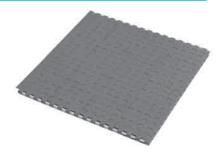
Note: 1. See page 25 for a description of these plastic chain materials.

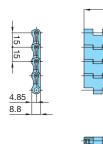
^{2. 🔾 :} Available — : Not available — . Special configurations may be available. Contact a Tsubaki representative on usage conditions and other details.

** : Standard-type chain is given an electrostatic preventive property.

Plastic Modular Chain WT1505-K Closed Type: Straight Running

No tab guide attachments





U.S. Patent 6196381 B1 U.S. Patent 6050397 EP 0845425 B1

Dimensions in mm

Material mark	Chain pitch mm	Link color	Open area %	Max. allowable load kN/m {kgf/m}	Chain mass kg/m²	Operating temperature range °C	Pin material
ULF		Blue					Special
UL	15	Green	2	10.5 {1070}	6.7	-20 to 80 (60)	engineering
NLF		Dark gray					plastic

Note: 1. Values for max. allowable load are at ambient temperature (20°C) and assume that tension acts uniformly over the entire chain width. Values for max. allowable load in the table above are for chain that is one meter (1m) in width. To calculate values for other chain widths, multiply the chain width in question by the max. allowable load for one-meter (1m) wide chain.

2. Operating temperature of (60) is for wet conditions.

Material

	Material	Material	Link color	Max. allowable load	Max. allowable	e speed m/min	Operating	WT1505-K
	Maleriai	mark	LITIK COIOI	kN/m {kgf/m}	With lube	No lube	temperature range °C	W11303-K
	Standard	-	Gray					
		LFW	White					•
	Low Friction/Anti-Wear	LFG	Green					
Standard		LFB	Brown	10.5 {1070}	50 (50)	50 (30)	-20 to 80 (60)	
chain	Ultra Low Friction	ULF	Blue	10.5 (10/0)	30 (30)	30 (30)	-20 10 00 (00)	
	Low Friction	UL	Green					0
		NLF	Dark gray					
		WR	Green					A
	Heat Resistant/ High Speed	KV150						
		KV180	Black	_				
		KV250			_	_	_	_
	High Temperature	HTW	White					
	Chemical Resistant	Υ	Matte white	8.0 { 816}	50 (50)	50 (30)	-20 to 80 (60)	_
High-function	Electroconductive	Е	Black	0.0 { 010}	30 (30)	30 (30)	-20 10 60 (60)	
chain	Impact Resistant	DIA	Cream					
	impaci kesisiani	DIY	Green					
	Antibacterial/Mold Resistant	MWS	Cream	_		_	_	-
	Metal Detectable	MPD	Black		_			
	Meiai Deleciable	MPW	DIUCK					
	Middle Friction	MF	Yellow	7.8 { 796}		50 (30)	-20 to 80	A

1. : Made-to-order product —: Not available —: Special configurations may be available. Contact a Tsubaki representative for further information.

2. Maximum allowable speeds in () are for when using nose bars made of UHMW-PE. Nose bars made of SJ-CNO (special polyamide) must be used under dry conditions without lubrication.

Operating temperature of (60) is for wet conditions.
 MF Medium Friction series must be used without lubrication (lube-free).

Chain (Plastic Pins)

Chain width	ULF	UL	NLF
X mm	Tsubaki model no.	Tsubaki model no.	Tsubaki model no.
76.2	WT1505-K03-ULF	WT1505-K03-UL	WT1505-K03-NLF
152.4	WT1505-K06-ULF	WT1505-K06-UL	WT1505-K06-NLF
228.6	WT1505-K09-ULF	WT1505-K09-UL	WT1505-K09-NLF
304.8	WT1505-K12-ULF	WT1505-K12-UL	WT1505-K12-NLF
381.0	WT1505-K15-ULF	WT1505-K15-UL	WT1505-K15-NLF
457.2	WT1505-K18-ULF	WT1505-K18-UL	WT1505-K18-NLF
533.4	WT1505-K21-ULF	WT1505-K21-UL	WT1505-K21-NLF

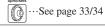
Chain width	ULF	UL	NLF
X mm	Tsubaki model no.	Tsubaki model no.	Tsubaki model no.
609.6	WT1505-K24-ULF	WT1505-K24-UL	WT1505-K24-NLF
685.8	WT1505-K27-ULF	WT1505-K27-UL	WT1505-K27-NLF
762.0	WT1505-K30-ULF	WT1505-K30-UL	WT1505-K30-NLF
838.2	WT1505-K33-ULF	WT1505-K33-UL	WT1505-K33-NLF
914.4	WT1505-K36-ULF	WT1505-K36-UL	WT1505-K36-NLF
1219.2	WT1505-K48-ULF	WT1505-K48-UL	WT1505-K48-NLF
1524.0	WT1505-K60-ULF	WT1505-K60-UL	WT1505-K60-NLF

Note: 1. Custom chain widths and widths greater than 1,524mm are available upon request. Contact a Tsubaki representative for further information.

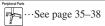
2. Chain width X shown is a nominal width. Actual width range is 🚜 at 20°C operating temperature. Chain width is subject to expansion or contraction with changes in temperature. Expansion/contraction rate is 0.00015/°C based on reference temperature of 20°C.

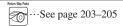
3. Cannot be used with BT5-24T/BT5-32T sprockets for BT5 chain.

Contact a Tsubaki representative for sprocket attachment positions.

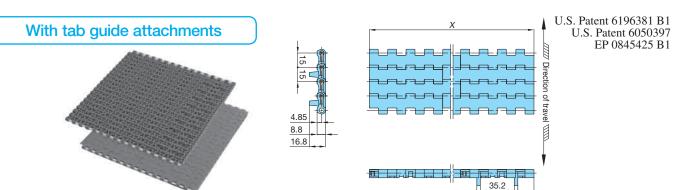








Plastic Modular Chain WT1505G-K Closed Type: Straight Running



Dimensions in mm

Material mark	Chain pitch mm	Link color	Open area %	Max. allowable load kN/m {kgf/m}	Chain mass kg/m²	Operating temperature range °C	Pin material
ULF		Blue					Special
UL	15	Green	2	10.5 {1070}	6.7	-20 to 80 (60)	engineering
NLF		Dark gray					plastic

Note: 1. Values for max. allowable load are at ambient temperature (20°C) and assume that tension acts uniformly over the entire chain width. Values for max. allowable load in the table above are for chain that is one meter (1 m) in width. To calculate values for other chain widths, multiply the chain width in question by the max. allowable load for one-meter (1m) wide chain.

- 2. When using the WT-N1500-12T30 solid sprocket, make the sprocket key length 30mm to engage the tab guide attachment module.
- 3. Cannot be used with nose bars
- 4. Operating temperature of (60) is for wet conditions.

Material

		Material	11.1	Max. allowable load	Max. allowable	e speed m/min	Operating	VA/T1 5050 K
	Material	mark	Link color	kN/m {kgf/m}	With lube	No lube	temperature range °C	WT1505G-K
	Standard	-	Gray					
		LFW	White					
	Low Friction/Anti-Wear	LFG	Green					_
Standard		LFB	Brown	10.5 {1070}	50	50	-20 to 80 (60)	
chain	Ultra Low Friction	ULF	Blue	10.5 (10/0)	30	30	-20 10 00 (00)	
	Low Friction	UL	Green					\circ
		NLF	Dark gray					
		WR	Green					A
	Heat Resistant/ High Speed	KV150		_				
		KV180	Black					_
		KV250			_	_	-	
	High Temperature	HTW	White					
	Chemical Resistant	Υ	Matte white					_
High-function	Electroconductive	Е	Black	8.0 { 816}	50	50	-20 to 80 (60)	A
chain	Impact Resistant	DIA	Cream					
	impaci kesisiani	DIY	Green					
	Antibacterial/Mold Resistant	MWS	Cream	_		_	_	-
	Metal Detectable	MPD	Black		_			
	Meidi Delectable	MPW	DICK					
	Middle Friction	MF	Yellow	7.8 { 796}		50	-20 to 80	A

▲ : Special configurations may be available. Contact a Tsubaki representative for further information. 1. : Made-to-order product

Chain (Plastic Pins)

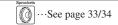
Chain width	ULF	UL	NLF
X mm	Tsubaki model no.	Tsubaki model no.	Tsubaki model no.
152.4	WT1505G-K06-ULF	WT1505G-K06-UL	WT1505G-K06-NLF
228.6	WT1505G-K09-ULF	WT1505G-K09-UL	WT1505G-K09-NLF
304.8	WT1505G-K12-ULF	WT1505G-K12-UL	WT1505G-K12-NLF
381.0	WT1505G-K15-ULF	WT1505G-K15-UL	WT1505G-K15-NLF
457.2	WT1505G-K18-ULF	WT1505G-K18-UL	WT1505G-K18-NLF
533.4	WT1505G-K21-ULF	WT1505G-K21-UL	WT1505G-K21-NLF
609.6	WT1505G-K24-ULF	WT1505G-K24-UL	WT1505G-K24-NLF

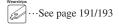
Chain width	ULF	UL	NLF		
X mm	Tsubaki model no.	Tsubaki model no.	Tsubaki model no.		
685.8	WT1505G-K27-ULF	WT1505G-K27-UL	WT1505G-K27-NLF		
762.0	WT1505G-K30-ULF	WT1505G-K30-UL	WT1505G-K30-NLF		
838.2	WT1505G-K33-ULF	WT1505G-K33-UL	WT1505G-K33-NLF		
914.4	WT1505G-K36-ULF	WT1505G-K36-UL	WT1505G-K36-NLF		
990.6	WT1505G-K39-ULF	WT1505G-K39-UL	WT1505G-K39-NLF		
1219.2	WT1505G-K48-ULF	WT1505G-K48-UL	WT1505G-K48-NLF		
1524.0	WT1505G-K60-ULF	WT1505G-K60-UL	WT1505G-K60-NLF		

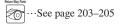
Note: 1. Custom chain widths and widths greater than 1,524mm are available upon request. Contact a Tsubaki representative for further information.

- 2. Chain width X shown is a nominal width. Actual width range is 🔭 at 20°C operating temperature. Chain width is subject to expansion or contraction with changes in temperature. Expansion/contraction rate is 0.00015/°C based on reference temperature of 20°C.
- 3. Cannot be used with BT5-24T/BT5-32T sprockets for BT5 chain.

Contact a Tsubaki representative for sprocket attachment positions.



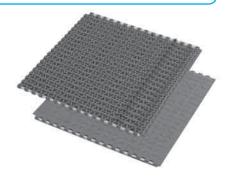


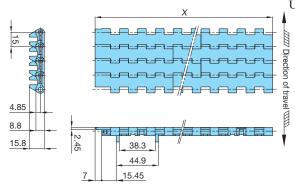


Operating temperature of (60) is for wet conditions.
 MF Medium Friction series must be used without lubrication (lube-free).

Plastic Modular Chain WT1505GTO-K Closed Type: Straight Running

With tab guide attachments





U.S. Patent 6196381 B1 U.S. Patent 6708818 B2 U.S. Patent 6050397 EP 0845425 B1 EP 1422171 B1

Dimensions in mm

Material mark	Chain pitch mm	Link color	Open area %	Max. allowable load kN/m {kgf/m}	Chain mass kg/m²	Operating temperature range °C	Pin material
ULF		Blue					Special
UL	15	Green	2	10.5 {1070}	6.7	-20 to 80 (60)	engineering
NLF		Dark gray					plastic

Note: 1. Values for max. allowable load are at ambient temperature (20°C) and assume that tension acts uniformly over the entire chain width. Values for max. allowable load in the table above are for chain that is one meter (1m) in width. To calculate values for other chain widths, multiply the chain width in question by the max. allowable load for one-meter (1m) wide chain.

2. When using the WT-N1500-12T30 solid sprocket, make the sprocket key length 30mm to engage the tab guide attachment module.

3. Operating temperature of (60) is for wet conditions.

Material

	Material	Material	Link color	Max. allowable load	Max. allowable	e speed m/min	Operating	WT1505GTO-K
	Material	mark	LINK COIOF	kN/m {kgf/m}	With lube	No lube	temperature range °C	W11303G10-K
	Standard	-	Gray					
		LFW	White		50 (50)			_
	Low Friction/Anti-Wear	LFG	Green					
Standard		LFB	Brown	10.5 {1070}		50 (30)	-20 to 80 (60)	
chain	Ultra Low Friction	ULF	Blue	10.5 {10/0}	50 (50)			
		UL	Green					0
	Low Friction	NLF	Dark gray					
		WR	Green					A
	Heat Resistant/ High Speed	KV150						
		KV180	Black					
		KV250]	-	-	_	_	_
	High Temperature	HTW	White					
	Chemical Resistant	Υ	Matte white					
High-function	Electroconductive	Е	Black	8.0 { 816}	50 (50)	50 (30)	-20 to 80 (60)	A
chain	loon and Desistant	DIA	Cream					
	Impact Resistant	DIY	Green					
	Antibacterial/Mold Resistant	MWS	Cream	_	_	_	-	_
	Metal Detectable	MPD	Black					
	Merai Derectable	MPW	DICK					
	Middle Friction	MF	Yellow	7.8 { 796}	50 (50)	_	-20 to 80	A

Note: 1. (): Made-to-order product () = : Not available () = : Special configurations may be available. Contact a Tsubaki representative for further information. 2. Maximum allowable speeds in () are for when using nose bars made of UHMW-PE. Nose bars made of SJ-CNO (special polyamide) must be used under dry

conditions without lubrication. 3. Operating temperature of (60) is for wet conditions.

4. MF Medium Friction series must be used without lubrication (lube-free).

Chain (Plastic Pins)

Chain width	ULF	UL	NLF		
X mm	Tsubaki model no.	Tsubaki model no.	Tsubaki model no.		
235.6	WT1505GTO-K09-ULF	WT1505GTO-K09-UL	WT1505GTO-K09-NLF		
311.8	WT1505GTO-K12-ULF	WT1505GTO-K12-UL	WT1505GTO-K12-NLF		
388.0	WT1505GTO-K15-ULF	WT1505GTO-K15-UL	WT1505GTO-K15-NLF		
464.2	WT1505GTO-K18-ULF	WT1505GTO-K18-UL	WT1505GTO-K18-NLF		
540.4	WT1505GTO-K21-ULF	WT1505GTO-K21-UL	WT1505GTO-K21-NLF		
616.6	WT1505GTO-K24-ULF	WT1505GTO-K24-UL	WT1505GTO-K24-NLF		
692.8	WT1505GTO-K27-ULF	WT1505GTO-K27-UL	WT1505GTO-K27-NLF		

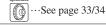
Chain width	ULF	UL	NLF		
X mm	Tsubaki model no.	Tsubaki model no.	Tsubaki model no.		
769.0	WT1505GTO-K30-ULF	WT1505GTO-K30-UL	WT1505GTO-K30-NLF		
845.2	WT1505GTO-K33-ULF	WT1505GTO-K33-UL	WT1505GTO-K33-NLF		
921.4	WT1505GTO-K36-ULF	WT1505GTO-K36-UL	WT1505GTO-K36-NLF		
997.6	WT1505GTO-K39-ULF	WT1505GTO-K39-UL	WT1505GTO-K39-NLF		
1073.8	WT1505GTO-K42-ULF	WT1505GTO-K42-UL	WT1505GTO-K42-NLF		
1226.2	WT1505GTO-K48-ULF	WT1505GTO-K48-UL	WT1505GTO-K48-NLF		
1531.0	WT1505GTO-K60-ULF	WT1505GTO-K60-UL	WT1505GTO-K60-NLF		

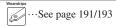
Note: 1. Custom chain widths and widths greater than 1,531 mm are available upon request. Contact a Tsubaki representative for further information.

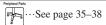
2. Chain width X shown is a nominal width. Actual width range is 🖏 at 20°C operating temperature. Chain width is subject to expansion or contraction with changes in temperature. Expansion/contraction rate is 0.00015/°C based on reference temperature of 20°C.

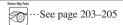
3. Cannot be used with BT5-24T/BT5-32T sprockets for BT5 chain.

Contact a Tsubaki representative for sprocket attachment positions.



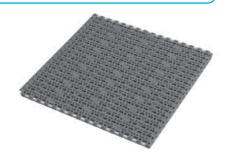


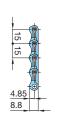


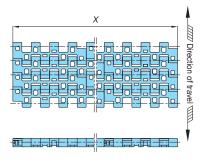


Plastic Modular Chain WT 1506-K Open Type: Straight Running

No tab guide attachments







U.S. Patent 6196381 B1 U.S. Patent 6050397 EP 0845425 B1

Dimensions in mm

Material mark	Chain pitch mm	Link color	Open area %	Max. allowable load kN/m {kgf/m}	Chain mass kg/m²	Operating temperature range °C	Pin material
ULF		Blue					Special
UL	15	Green	26	10.5 {1070}	6.7	-20 to 80 (60)	engineering
NLF		Dark gray					plastic

Note: 1. Values for max. allowable load are at ambient temperature (20°C) and assume that tension acts uniformly over the entire chain width. Values for max. allowable load in the table above are for chain that is one meter (1m) in width. To calculate values for other chain widths, multiply the chain width in question by the max. allowable load for one-meter (1m) wide chain.

Material

	Material	Material	Link color	Max. allowable load	Max. allowable	e speed m/min	Operating	WT1 <i>5</i> 06-K
	Material	mark	LINK COIOF	kN/m {kgf/m}	With lube	No lube	temperature range °C	W11300-K
	Standard	-	Gray					
		LFW	White					•
	Low Friction/Anti-Wear	LFG	Green					_
Standard		LFB	Brown	10.5 {1070}	50 (50)	50 (30)	-20 to 80 (60)	
chain	Ultra Low Friction	ULF	Blue	10.5 {10/0}	30 (30)	30 (30)	-20 to 60 (60)	
	Low Friction	UL	Green					\circ
		NLF	Dark gray					
		WR	Green					A
	Heat Resistant/ High Speed	KV150						
		KV180	Black	_	-	_	_	-
		KV250						
	High Temperature	HTW	White	4.25{ 434}	50	30	5 to 105	A
	Chemical Resistant	Υ	Matte white	_	_	_	_	-
High-function	Electroconductive	Е	Black	8.0 { 816}	50 (50)	50 (30)	-20 to 80 (60)	A
chain	Impact Resistant	DIA	Cream					
	impaci kesisiani	DIY	Green					
	Antibacterial/Mold Resistant	MWS	Cream	_	_	_	_	_
	Metal Detectable	MPD	Black		_			
	Meidi Delecidble	MPW	DICK					
	Middle Friction	MF	Yellow	7.8 { 796}		50 (30)	-20 to 80	A

Note: 1. \bigcirc : Made-to-order product

1. () : Made-to-order product — : Not available — : Special configurations may be available. Contact a Tsubaki representative for further information.

2. Maximum allowable speeds in () are for when using nose bars made of UHMW-PE. Nose bars made of SJ-CNO (special polyamide) must be used under dry conditions without lubrication.

3. Operating temperature of (60) is for wet conditions.

4. MF Medium Friction series must be used without lubrication (lube-free).

Chain (Plastic Pins)

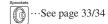
Chain width	ULF	UL	NLF		
X mm	Tsubaki model no.	Tsubaki model no.	Tsubaki model no.		
76.2	WT1506-K03-ULF	WT1506-K03-UL	WT1506-K03-NLF		
152.4	WT1506-K06-ULF	WT1506-K06-UL	WT1506-K06-NLF		
228.6	WT1506-K09-ULF	WT1506-K09-UL	WT1506-K09-NLF		
304.8	WT1506-K12-ULF	WT1506-K12-UL	WT1506-K12-NLF		
381.0	WT1506-K15-ULF	WT1506-K15-UL	WT1506-K15-NLF		
457.2	WT1506-K18-ULF	WT1506-K18-UL	WT1506-K18-NLF		
533.4	WT1506-K21-ULF	WT1506-K21-UL	WT1506-K21-NLF		

Chain width	ULF	UL	NLF		
X mm	Tsubaki model no.	Tsubaki model no.	Tsubaki model no.		
609.6	WT1506-K24-ULF	WT1506-K24-UL	WT1506-K24-NLF		
685.8	WT1506-K27-ULF	WT1506-K27-UL	WT1506-K27-NLF		
762.0	WT1506-K30-ULF	WT1506-K30-UL	WT1506-K30-NLF		
838.2	WT1506-K33-ULF	WT1506-K33-UL	WT1506-K33-NLF		
914.4	WT1506-K36-ULF	WT1506-K36-UL	WT1506-K36-NLF		
1219.2	WT1506-K48-ULF	WT1506-K48-UL	WT1506-K48-NLF		
1524.0	WT1506-K60-ULF	WT1506-K60-UL	WT1506-K60-NLF		

Note: 1. Custom chain widths and widths greater than 1,524mm are available upon request. Contact a Tsubaki representative for further information.

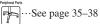
- 2. Chain width X shown is a nominal width. Actual width range is 🔭 at 20°C operating temperature. Chain width is subject to expansion or contraction with changes in temperature. Expansion/contraction rate is 0.00015/°C based on reference temperature of 20°C.
- 3. Cannot be used with BT5-24T/BT5-32T sprockets for BT5 chain.

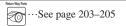
Contact a Tsubaki representative for sprocket attachment positions.





·See page 191/193





^{2.} Operating temperature of (60) is for wet conditions.

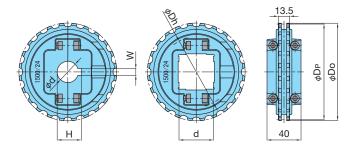
Sprockets for WT1500/3000 Chain Engineering Plastic

Applicable chain

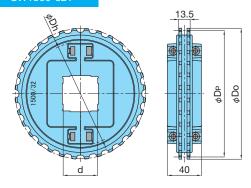
WT1505 (including G/GTO), 1506, 3005 (including G), 3086 (including G), BTN5(-A)

SW1500 Split Sprockets

SW1500-24T



SW1500-32T

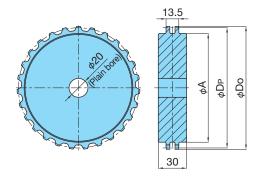


øDo ФDР

Tsubaki	Teeth	Pitch diameter	Outside diameter	Bore	diameter -	Keyway		Hub diameter	Approx.	Туре	Material	
model no.	reem	Dp	Do	shape		W	Н	Dh	kg	Туре	Body	Bolt & nut
WT-SW1500-24T25					25	8	28.3				Reinforced polyamide	
WT-SW1500-24T30]			Round	30	8	33.3		0.3	Split		
WT-SW1500-24T35	24	114.9	115.5	Kound	35	10	38.3	83				
WT-SW1500-24T40]				40	12	43.3					C I
WT-SW1500-24T40S]			Square	40	-	-					Stainless steel
WT-SW1500-32T40S	32	153.0	154.8	C	40	-	-	121.5	0.4		(black)	31001
WT-SW1500-32T60S	32	155.0	134.6	Square	60	-	-	121.5	0.4			
WT-SW1500-33T40S	33	157.8	158.6	Square	40	-	-	124	0.4			
WT-SW1500-33T65S	33	13/.6	130.0		65	-	-	126	0.4			

- Note: 1. Bolt tightening torque: 5.7 N·m
 2. When assembling the sprockets, do not mix the pairs.
 3. Bolts and nuts are made of stainless steel.
 4. Operating temperature range: -20°C to 80°C

■ S1500 Solid Sprockets



Tsubaki model no.	Teeth	Pitch diameter <i>Dp</i>	Outside diameter Do	Hub diameter A	Bore shape	Bore diameter d	Туре	Material
WT-S1500-24T	24	114.9	115	100				
WT-S1500-25T	25	119.7	120	105] _			
WT-S1500-27T	27	129.2	130	115		shape and	Solid	UHMW-PE
WT-S1500-31T	31	148.3	149	134	size are made- to-order.		Solia	(green)
WT-S1500-32T	32	153.0	154	138				
WT-S1500-33T	33	157.8	158.6	144				

1. Made-to-order product.

2. Sprockets can also be manufactured with other shapes and number of teeth than noted

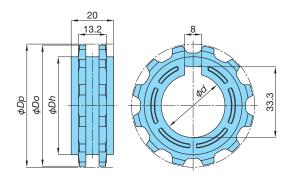
Engineering Plastic

Sprockets for WT1500 Chain

WT1505 (including G/GTO), 1506, 1515G, BTN5 Applicable chain

N1500 Solid Sprockets (Molded)





Tsubaki model no.	Teeth	Pitch diameter <i>Dp</i>	Outside diameter Do	Bore shape	Bore diameter d	Hub diameter <i>Dh</i>	Approx. mass kg	Туре	Material
WT-N1500-12T30	12	57.96	57	Round	30	46	0.027	Solid	Reinforced polyamide (black)

- Note: 1. Cannot be used with WT3000 series chain.

 2. When using with WT1505G/1505GTO chain and with WT1515G-M50 chain, make the sprocket key length 30mm and 20mm, respectively, to engage the tab guide attachment module.

 3. Operating temperature range: -20°C to 80°C

Accessories for WT1500 Chain

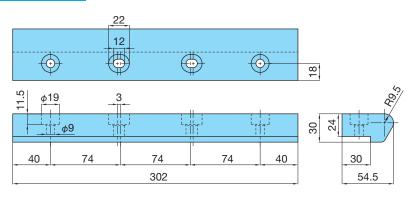
NB-151

NB-76/151/302 Nose Bars (Sliding Series)

NB-76 24 30 40 76 54.5

 \bigcirc 198 ϕ 19 40 71 40 30 151 54.5

NB-302

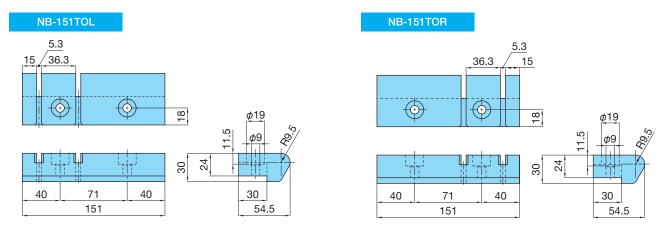


Tsubaki model no.	Material	Material grade	Color	Application
WT-NB76-10-301	Ultra-high molecular weight polyethylene	10-301	Green	Ideal for use with water lubricant or under other wet running conditions.
WT-NB76-10-100M9	Ultra-high molecular weight polyethylene (oil impregnated)	10-100M9	White	Ideal for use under light load, low speed, dry running conditions.
WT-NB76-CNO	Special polyamide	SJ-CNO	Gray	Ideal for use under heavy load, high speed, dry running conditions.
WT-NB151-10-301	Ultra-high molecular weight polyethylene	10-301	Green	Ideal for use with water lubricant or under other wet running conditions.
WT-NB151-10-100M9	Ultra-high molecular weight polyethylene (oil impregnated)	10-100M9	White	Ideal for use under light load, low speed, dry running conditions.
WT-NB151-CNO	Special polyamide	SJ-CNO	Gray	Ideal for use under heavy load, high speed, dry running conditions.
WT-NB302-10-301	Ultra-high molecular weight polyethylene	10-301	Green	Ideal for use with water lubricant or under other wet running conditions.
WT-NB302-10-100M9	Ultra-high molecular weight polyethylene (oil impregnated)	10-100M9	White	Ideal for use under light load, low speed, dry running conditions.
WT-NB302-CNO	Special polyamide	SJ-CNO	Gray	Ideal for use under heavy load, high speed, dry running conditions.

Note: 1. Made-to-order product. 2. Cannot be used with WT1505G-M300, WT1515G-M50, or WT1505G-K series chains.

3. Contact a Tsubaki representative for mounting dimensions.

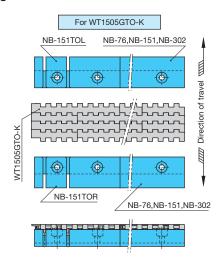
● NB-151TOL/151TOR Nose Bars (Sliding Series)



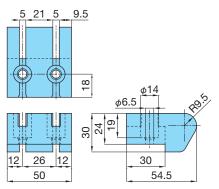
Tsubaki model no.	Material	Material grade	Color
WT-NB151TOL-10-301	Ultra-high molecular weight polyethylene	10-301	Green
WT-NB151TOL-10-100M9	Ultra-high molecular weight polyethylene (oil impregnated)	10-100M9	White
WT-NB151TOL-CNO	Special polyamide	SJ-CNO	Gray
WT-NB151TOR-10-301	Ultra-high molecular weight polyethylene	10-301	Green
WT-NB151TOR-10-100M9	Ultra-high molecular weight polyethylene (oil impregnated)	10-100M9	White
WT-NB151TOR-CNO	Special polyamide	SJ-CNO	Gray

- Note: 1. Made-to-order product. 2. Cannot be used with WT1505G-M300, WT1515G-M50, or WT1505G-K series chains.
 - 3. Contact a Tsubaki representative for mounting dimensions.

Using Nose Bar on WT1505GTO-K Chain



WT-NBG50 Nose Bar for WT1515G-M50 Chain



Tsubaki model no.	Material	Material grade	Color
WT-NBG50-10-301	Ultra-high molecular weight polyethylene	10-301	Green
WT-NBG50-10-100M9	Ultra-high molecular weight polyethylene (oil impregnated)	10-100M9	White
WT-NBG50-CNO	Special polyamide	SJ-CNO	Gray

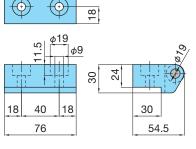
- Note: 1. Made-to-order product. 2. Cannot be used with WT1505G-M300, WT1505GTO-M300 & 600, WT1505G-K, or WT1505GTO-K
 - 3. Contact a Tsubaki representative for mounting dimensions.

NR-76TO

Accessories for WT1500 Chain

NR-76/151/76TO Nose Bars (Integrated Bearing Series)

NR-76 Plastic collar 6800LLU bearing 24



Plastic colla 6800LLU bearing 18 φ19 $\lceil \rceil \rceil \phi 9$ 30 40 71 40 30 151 54.5

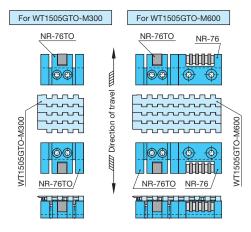
14.3 5.3 HMK1216LL bearing φ9 30 28.5 28.5 75.5 54.5

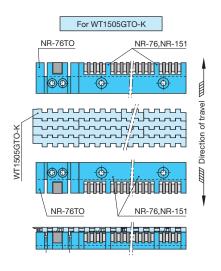
Tsubaki model no.	Main body material	Material grade	Color	Bearing	Shaft material
WT-NR151				Ball	
WT-NR76	UHMW-PE	10-301	Green	Ball	Stainless steel
WT-NR76-TO				Needle	

Note: 1. Made-to-order product.

- 2. Cannot be used with WT1505G-M300, WT1515G-M50, or WT1505G-K
- 3. Standard bearing material is steel.

Using Nose Bar on WT1505GTO-K Chain





Dead Plate



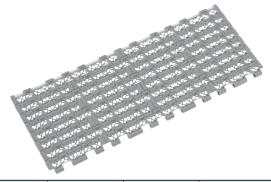
Tsubaki model no.	L mm	Material
WT-DP12	400	
WT-DP18	550	Stainless steel
WT-DP24	700	Sidifiless sieei
WT-DP30	850	

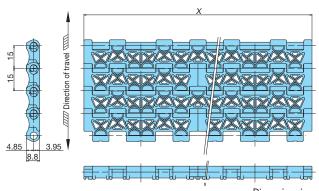
- Note: 1. Made-to-order product.
 2. Contact a Tsubaki representative for further information regarding dead plates for chain widths greater than 762mm (K30) and hard chrome-plated dead plates.
 3. Contact a Tsubaki representative for mounting dimensions.

Plastic Modular Chain BTN5

Net Type: Straight Running

No tab guide attachments





Dimensions in mm

Material mark	Chain pitch mm	Link color	Open area %	Max. allowable load kN/m {kgf/m}	Chain mass kg/m²	Operating temperature range °C	Pin material
LFB		Brown					
MWS		Cream		10.5 {1070}	5.90		
ULF	15	Blue	30	30		-20 to 80 (60)	Special engineering plastic
DIA		Cream		7.85{ 800}	4.60		
DIY		Green			7.25		

Note: 1. Operating temperature of (60) is for wet conditions. When plastic pins are replaced with stainless steel pins, the chain can be used from 60°C to 80°C in wet conditions. In this case, initial chain length will be slightly longer and chain mass heavier. Be sure to contact a Tsubaki representative before use.

2. Values for max. allowable load assume that tension acts uniformly over the entire chain width and will vary according to operating conditions (temperature and speed). Contact a Tsubaki representative for chain max. allowable load graphs. Values for max. allowable load in the table above are for chain that is one meter (1m) in width. To calculate values for other chain widths, multiply the chain width in question by the max. allowable load for one-meter (1m) wide chain. (Example: Max. allowable load for BTN5-3048-LFB = 10.5 x 304/1000 \(\dec \) 3.19 kN)

Material

	Material	Material	Link color	Max. allowable load	Max. allowable speed m/min		Operating	BTN5
	Malerial	mark	LITIK COIOI	$kN/m \{kgf/m\}$	With lube	No lube	temperature range °C	DIINO
	Standard	-	Gray					
		LFW	White					
	Low Friction/Anti-Wear	LFG	Green	10.5 {1070}	50	50	-20 to 80 (60)	0
Standard		LFB	Brown					
chain	Ultra Low Friction	ULF	Blue					
		WR	Green					
	Low Friction	UL	Green	_	-	_	-	-
		NLF	Dark gray					
	Heat Resistant/ High Speed	KV150					-	
		KV180	Black					
		KV250		_	_	_		_
	High Temperature	HTW	White					
	Low Temperature	LTW	White	3.43{350}	15	15	-70 to 60	0
High-function	Chemical Resistant	Υ	Matte white	5.3 {540}	- 50		-20 to 80 (60)	A
chain	Electroconductive	E	Black	7.4 {750}	30		-20 10 00 (00)	
	Impact Resistant	DIA	Cream	7.85{800}	_	50	-20 to 80	0
		DIY	Green	7.03(000)	- 50		-20 to 80 (60)	O
	Antibacterial/Mold Resistant	MWS	Cream	10.5{1070}	50		-20 10 80 (80)	
	Metal Detectable	MPD	Black		Contact a Tsubaki representative.			_
	Meiui Deleciable	MPW	DIUCK					

Note: 1. \bigcirc : Made-to-order product —: Not available riangle: Special configurations may be available. Contact a Tsubaki representative for further information. 2. See precautionary notes above regarding maximum allowable load and operating temperature range.

Chain (Plastic Pins)

Chain width	LFB	ULF
X mm	Tsubaki model no.	Tsubaki model no.
76	BTN5-760-LFB	BTN5-760-ULF
152	BTN5-1520-LFB	BTN5-1520-ULF
228	BTN5-2280-LFB	BTN5-2280-ULF
304	BTN5-3040-LFB	BTN5-3040-ULF
380	BTN5-3800-LFB	BTN5-3800-ULF
456	BTN5-4560-LFB	BTN5-4560-ULF
532	BTN5-5320-LFB	BTN5-5320-ULF

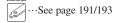
Chain width	LFB	ULF
X mm	Tsubaki model no.	Tsubaki model no.
608	BTN5-6080-LFB	BTN5-6080-ULF
684	BTN5-6840-LFB	BTN5-6840-ULF
760	BTN5-7600-LFB	BTN5-7600-ULF
836	BTN5-8360-LFB	BTN5-8360-ULF
912	BTN5-9120-LFB	BTN5-9120-ULF
988	BTN5-9880-LFB	BTN5-9880-ULF
1064	BTN5-10640-LFB	BTN5-10640-ULF

	Chain width	LFB	ULF
X mm		Tsubaki model no.	Tsubaki model no.
	1140	BTN5-11400-LFB	BTN5-11400-ULF
	1216	BTN5-12160-LFB	BTN5-12160-ULF
	1292	BTN5-12920-LFB	BTN5-12920-ULF
	1368	BTN5-13680-LFB	BTN5-13680-ULF
	1444	BTN5-14440-LFB	BTN5-14440-ULF
	1520	BTN5-15200-LFB	BTN5-15200-ULF

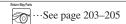
- Note: 1. Custom chain widths and widths greater than 1,520mm are available upon request. Contact a Tsubaki representative for further information.

 2. Chain width X shown is a nominal width. Chain width is subject to expansion or contraction with changes in temperature. Expansion/contraction rate is 0.00015/°C based on reference temperature of 20°C.
 - 3. Can be used with WT-SW1500 sprockets for WT1500 series chain.





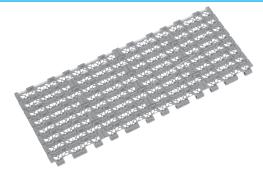


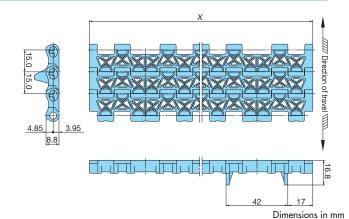


Plastic Modular Chain BTN5-A

Net Type: Straight Running

With tab guide attachments





Material mark	Chain pitch mm	Link color	Open area %	Max. allowable load kN/m {kgf/m}	Chain mass kg/m²	Operating temperature range °C	Pin material
LFB		Brown					
MWS		Cream		10.5 {1070}	5.90		Special
ULF	15	Blue	30			-20 to 80 (60)	engineering
DIA	1	Cream	1	7.85{ 800}	4.60		plastic
DIY	1	Green	1	7.00{ 000}	7.25		

Note: 1. Operating temperature of (60) is for wet conditions. When plastic pins are replaced with stainless steel pins, the chain can be used from 60°C to 80°C in wet conditions. In this case, initial chain length will be slightly longer and chain mass heavier. Be sure to contact a Tsubaki representative before use.

2. Values for max. allowable load assume that tension acts uniformly over the entire chain width and will vary according to operating conditions (temperature and

- 2. Values for max. allowable load assume that tension acts uniformly over the entire chain width and will vary according to operating conditions (temperature and speed). Contact a Tsubaki representative for chain max. allowable load graphs. Values for max. allowable load in the table above are for chain that is one meter (1m) in width. To calculate values for other chain widths, multiply the chain width in question by the max. allowable load for one-meter (1m) wide chain. (Example: Max. allowable load for BTN5-3040-A-LFB = 10.5 x 304/1000 = 3.19 kN)
- 3. Chain with tab guide attachments will be 0.5 kg/m heavier. Tab guide attachments are attached to every second link on one side of the chain.

Material

	Material	Material	Link color	Max. allowable load		e speed m/min	Operating	BTN5-A
	Maioriai	mark	LITIK COIOI	kN/m {kgf/m}	With lube	No lube	temperature range °C	DII 10 A
	Standard	_	Gray					
		LFW	White					
	Low Friction/Anti-Wear	LFG	Green	10.5 {1070}	50	50	-20 to 80 (60)	0
Standard		LFB	Brown					
chain	Ultra Low Friction	ULF	Blue					
		WR	Green					
	Low Friction	UL	Green	_	_	_	_	-
		NLF	Dark gray					
	Heat Resistant/ High Speed	KV150						
		KV180	Black				-	
		KV250		_	_	_		_
	High Temperature	HTW	White					
	Low Temperature	LTW	White					
High-function	Chemical Resistant	Υ	Matte white	5.3 {540}	50		-20 to 80 (60)	A
chain	Electroconductive	Е	Black	7.4 {750}	30		-20 10 60 (60)	
	Inner met De sintanet	DIA	Cream	7.85{800}	-	50	-20 to 80	
	Impact Resistant	DIY	Green	7.03{000}	- 50		20 1 20 1/0)	
	Antibacterial/Mold Resistant	MWS	Cream	10.5{1070}] 30		-20 to 80 (60)	
	Maral Data stalela	MPD	Black			-		
	Metal Detectable	MPW	DICK	_	_		_	_

Note: 1. \bigcirc : Made-to-order product —: Not available \blacktriangle : Special configurations may be available. Contact a Tsubaki representative for further information. 2. See precautionary notes above regarding maximum allowable load and operating temperature range.

Chain (Plastic Pins)

Chain width	LFB	ULF
X mm	Tsubaki model no.	Tsubaki model no.
76	BTN5-760-A-LFB	BTN5-760-A-ULF
152	BTN5-1520-A-LFB	BTN5-1520-A-ULF
228	BTN5-2280-A-LFB	BTN5-2280-A-ULF
304	BTN5-3040-A-LFB	BTN5-3040-A-ULF
380	BTN5-3800-A-LFB	BTN5-3800-A-ULF
456	BTN5-4560-A-LFB	BTN5-4560-A-ULF
532	BTN5-5320-A-LFB	BTN5-5320-A-ULF

Chain width	LFB	ULF
X mm	Tsubaki model no.	Tsubaki model no.
608	BTN5-6080-A-LFB	BTN5-6080-A-ULF
684	BTN5-6840-A-LFB	BTN5-6840-A-ULF
760	BTN5-7600-A-LFB	BTN5-7600-A-ULF
836	BTN5-8360-A-LFB	BTN5-8360-A-ULF
912	BTN5-9120-A-LFB	BTN5-9120-A-ULF
988	BTN5-9880-A-LFB	BTN5-9880-A-ULF
1064	BTN5-10640-A-LFB	BTN5-10640-A-ULF
	X mm 608 684 760 836 912 988	Xmm Tsubaki model no. 608 BTN5-6080-A-LFB 684 BTN5-6840-A-LFB 760 BTN5-7600-A-LFB 836 BTN5-8360-A-LFB 912 BTN5-9120-A-LFB 988 BTN5-9880-A-LFB

	Chain wiath	LID	OLI
	X mm	Tsubaki model no.	Tsubaki model no.
	1140	BTN5-11400-A-LFB	BTN5-11400-A-ULF
	1216	BTN5-12160-A-LFB	BTN5-12160-A-ULF
-	1292	BTN5-12920-A-LFB	BTN5-12920-A-ULF
	1368	BTN5-13680-A-LFB	BTN5-13680-A-ULF
	1444	BTN5-14440-A-LFB	BTN5-14440-A-ULF
-	1520	BTN5-15200-A-LFB	BTN5-15200-A-ULF
-			

Note: 1. Custom chain widths and widths greater than 1,520mm are available upon request. Contact a Tsubaki representative for further information.

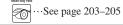
- 2. Chain width X shown is a nominal width. Chain width is subject to expansion or contraction with changes in temperature. Expansion/contraction rate is 0.00015/°C based on reference temperature of 20°C.
- 3. Can be used with WT-SW1500 sprockets for WT1500 series chain.











Accessories for BT5 Chain

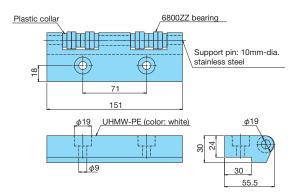
NB151/75 Nose Bars (Integrated Bearing Series)

· Standard Type

Tsubaki model no.: BT5-NB151-D19

Note: 1. Made-to-order product.

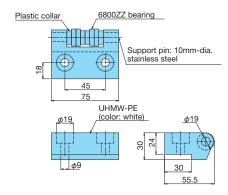
- 2. For use under dry conditions only. Units with SUS stainless steel bearings can also be manufactured.
- 3. Operating temperature range: -20°C to 60°C
- 4. Shape changed after December 2010.
- Contact a Tsubaki representative if previous type is required.



Tsubaki model no.: BT5-NB75-D19

Note: 1. Made-to-order product.

- For use under dry conditions only. Units with SUS stainless steel bearings can also be manufactured.
- 3. Operating temperature range: -20°C to 60°C
- 4. Shape changed after December 2010.
- Contact a Tsubaki representative if previous type is required.

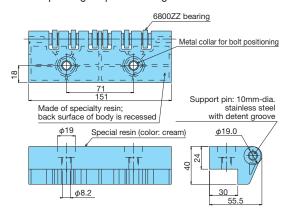


· Lightweight Type (easy to handle)

Tsubaki model no.: BT5-NB151-D19-LW

Note: 1. Made-to-order product.

- For use under dry conditions only. Units with SUS stainless steel bearings can also be manufactured.
- 3. Operating temperature range: -20°C to 60°C



Model Numbering



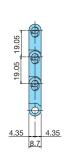
[blank]: Standard LW: Lightweight

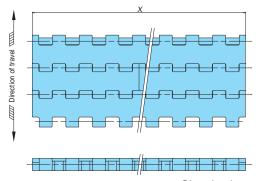
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Plastic Modular Chain BTC6

Closed Type: Straight Running







Dimensions in mm

Material mark	Chain pitch mm	Link color	Open area %	Max. allowable load kN/m {kgf/m}	Chain mass kg/m²	Operating temperature range °C	Pin material						
LFB		Brown											
MWS		Cream		12.8 {1300}	6.56		Special						
ULF	19.05	Blue	3 –	Blue Cream Green	2	2	2	2	3			-20 to 80 (60)	engineering
DIA	17.03	Cream			0.0 (1000)	5.25		plastic					
DIY		Green			9.8 {1000}	8.55							
KV250		Black	1	12.8 {1300}	13.12	-20 to 250	Stainless steel						

- Note: 1. Operating temperature of (60) is for wet conditions. When plastic pins are replaced with stainless steel pins, the chain can be used from 60°C to 80°C in wet conditions. In this case, initial chain length will be approx. 1% longer. Chain mass is identical to KV250 chain.
 - 2. Values for max. allowable load assume that tension acts uniformly over the entire chain width and will vary according to operating conditions (temperature and speed). Contact a Tsubaki representative for chain max. allowable load graphs. Values for max. allowable load in the table above are for chain that is one meter (1m) in width. To calculate values for other chain widths, multiply the chain width in question by the max. allowable load for one-meter (1m) wide chain. (Example: Max. allowable load for BTC6-3048-LFB = 12.8 x 304.8/1000 ≒ 3.9 kN)

 3. BTC6 chain with tab guide attachments or holes for vacuum operation are also available. Contact a Tsubaki representative for further information.

Material

	Material	Material	Link color	Max. allowable load		e speed m/min	Operating	BTC6
	Maichai	mark	LITIK COIOI	kN/m {kgf/m}	With lube	No lube	temperature range °C	БТСО
	Standard	-	Gray					
		LFW	White					
	Low Friction/Anti-Wear	LFG	Green	12.8 {1300}	50	50	-20 to 80 (60)	0
Standard		LFB	Brown					
chain	Ultra Low Friction	ULF	Blue					
		WR	Green					
	Low Friction	UL	Green	-	_	_	_	_
		NLF	Dark gray					
	Heat Resistant/ High Speed	KV150	Black	12.8 {1300}	_	50	-20 to 150	(stainless steel pin)
		KV180		-	-	-	-	-
		KV250		12.8 {1300}	50	50	-20 to 250	(stainless steel pin)
	High Temperature	HTW	White	-	-	-	-	-
	Low Temperature	LTW	White	4.22{430}	15	15	-70 to 60	0
High-function	Chemical Resistant	Y	Matte white	6.4 {650}	50		-20 to 80 (60)	A
chain	Electroconductive	Е	Black	9.0 {910}	30		-20 10 60 (60)	
	Income at Descietana	DIA	Cream	9.8{1000}	-	50	-20 to 80	
	Impact Resistant	DIY	Green	7.0{1000}	50		-20 to 80 (60)	0
	Antibacterial/Mold Resistant	MWS	Cream	12.8{1300}	30		-20 10 60 (60)	
	Metal Detectable	MPD	Black		Contract a Toubal	di ranggantatiya		_
	Meiai Delectable	MPW	DICK	Contact a Tsubaki representative.			_	

▲ : Special configurations may be available. Contact a Tsubaki representative for further information. Note: 1. \bigcirc : Made-to-order product - : Not available 2. See precautionary notes above regarding maximum allowable load and operating temperature range.

Chain (Plastic Pins)

	(- /
Chain width	LFB	ULF
X mm	Tsubaki model no.	Tsubaki model no.
76.2	BTC6-762-LFB	BTC6-762-ULF
152.4	BTC6-1524-LFB	BTC6-1524-ULF
228.6	BTC6-2286-LFB	BTC6-2286-ULF
304.8	BTC6-3048-LFB	BTC6-3048-ULF
381.0	BTC6-3810-LFB	BTC6-3810-ULF
457.2	BTC6-4572-LFB	BTC6-4572-ULF
233 V	RTC4-5334-LEB	BTC4-5334-HIE

Chain width	LFB	ULF
X mm	Tsubaki model no.	Tsubaki model no.
609.6	BTC6-6096-LFB	BTC6-6096-ULF
685.8	BTC6-6858-LFB	BTC6-6858-ULF
762.0	BTC6-7620-LFB	BTC6-7620-ULF
838.2	BTC6-8382-LFB	BTC6-8382-ULF
914.4	BTC6-9144-LFB	BTC6-9144-ULF
990.6	BTC6-9906-LFB	BTC6-9906-ULF
1066.8	RTC6-10668-LFB	RTC4-10448-LIJE

Chain width	LFB	ULF
X mm	Tsubaki model no.	Tsubaki model no.
1143.0	BTC6-11430-LFB	BTC6-11430-ULF
1219.2	BTC6-12192-LFB	BTC6-12192-ULF
1295.4	BTC6-12954-LFB	BTC6-12954-ULF
1371.6	BTC6-13716-LFB	BTC6-13716-ULF
1447.8	BTC6-14478-LFB	BTC6-14478-ULF
1524.0	BTC6-15240-LFB	BTC6-15240-ULF

Note: 1. Custom chain widths and widths greater than 1,524mm are available upon request. Contact a Tsubaki representative for further information.

2. Chain width X shown is a nominal width. Chain width is subject to expansion or contraction with changes in temperature. Expansion/contraction rate is 0.00015/°C based on reference temperature of 20°C.

Contact a Tsubaki representative for sprocket attachment positions.



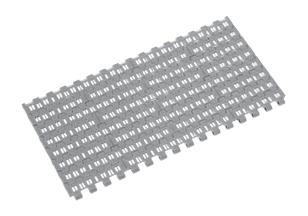
···See page 191/193

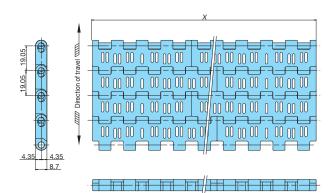


···See page 203-205

Plastic Modular Chain BT06

Open Type: Straight Running





Dimensions in mm

Material mark	Chain pitch mm	Link color	Open area %	Max. allowable load kN/m {kgf/m}	Chain mass kg/m²	Operating temperature range °C	Pin material
LFB		Brown					
MWS		Cream		12.8 {1300}	6.56		
ULF	19.05	Blue	17			-20 to 80 (60)	Special engineering plastic
DIA		Cream		9.8 {1000}	5.25		piasiic
DIY		Green		7.6 {1000}	8.55		

Note: 1. Operating temperature of (60) is for wet conditions. When plastic pins are replaced with stainless steel pins, the chain can be used from 60°C to 80°C in wet conditions. In this case, initial chain length will be approx. 1% longer. Chain mass is identical to BTC6 type KV250 chain.

2. Values for max. allowable load assume that tension acts uniformly over the entire chain width and will vary according to operating conditions (temperature and speed). Contact a Tsubaki representative for chain max. allowable load graphs. Values for max. allowable load in the table above are for chain that is one meter (1m) in width. To calculate values for other chain widths, multiply the chain width in question by the max. allowable load for one-meter (1m) wide chain. (Example: Max. allowable load for BTO6-3048-LFB = 12.8 x 304.8/1000 \(\display \) 3.9 kN)

Material

	Material	Material	Link color	Max. allowable load	Max. allowable	e speed m/min	Operating	BTO6
	Malerial	mark	LITIK COIOI	kN/m {kgf/m}	With lube	No lube	temperature range °C	ыоо
	Standard	-	Gray					
		LFW	White					
	Low Friction/Anti-Wear	LFG	Green	12.8{1300}	50	50	-20 to 80 (60)	0
Standard		LFB	Brown					
chain	Ultra Low Friction	ULF	Blue		1			
		WR	Green		-			
	Low Friction	UL	Green	-		_	-	-
		NLF	Dark gray					
	II ID 'I I/	KV150		-	_	-	-	
	Heat Resistant/ High Speed	KV180	Black					
		KV250						-
	High Temperature	HTW	White					
	Low Temperature	LTW	White					
High-function	Chemical Resistant	Υ	Matte white	6.4{650}	50		-20 to 80 (60)	A
chain	Electroconductive	Е	Black	9.0{910}	30		-20 10 80 (00)	
	Impact Resistant	DIA	Cream	9.8{1000}	-	50	-20 to 80	0
	impaci kesisiani	DIY	Green	7.0{1000}	50		-20 to 80 (60)	
	Antibacterial/Mold Resistant	MWS	Cream	12.8{1300}	50		-20 10 60 (60)	
	Metal Detectable	MPD	Black		Contact a Taylacki representative		_	
	Meiui Deleciable	MPW	DIUCK		Contact a Tsubaki representative.			

Note: 1. (): Made-to-order product — : Not available — &: Special configurations may be available. Contact a Tsubaki representative for further information. 2. See precautionary notes above regarding maximum allowable load and operating temperature range.

Chain (Plastic Pins)

Chain width	LFB	ULF
X mm	Tsubaki model no.	Tsubaki model no.
76.2	BTO6-762-LFB	BTO6-762-ULF
152.4	BTO6-1524-LFB	BTO6-1524-ULF
228.6	BTO6-2286-LFB	BTO6-2286-ULF
304.8	BTO6-3048-LFB	BTO6-3048-ULF
381.0	BTO6-3810-LFB	BTO6-3810-ULF
457.2	BTO6-4572-LFB	BTO6-4572-ULF
533.4	BTO6-5334-LFB	BTO6-5334-ULF

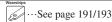
Chain width	LFB	ULF
X mm	Tsubaki model no.	Tsubaki model no.
609.6	BTO6-6096-LFB	BTO6-6096-ULF
685.8	BTO6-6858-LFB	BTO6-6858-ULF
762.0	BTO6-7620-LFB	BTO6-7620-ULF
838.2	BTO6-8382-LFB	BTO6-8382-ULF
914.4	BTO6-9144-LFB	BTO6-9144-ULF
990.6	BTO6-9906-LFB	BTO6-9906-ULF
1066.8	BTO6-10668-LFB	BTO6-10668-ULF

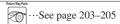
X mm Tsubaki model no. Tsubaki model no. 1143.0 BTO6-11430-LFB BTO6-11430-UF 1219.2 BTO6-12192-LFB BTO6-12192-UF 1295.4 BTO6-12954-LFB BTO6-12954-UF 1371.6 BTO6-13716-LFB BTO6-13716-UF	Chain width	LFB	ULF
1219.2 BTO6-12192-LFB BTO6-12192-ULF 1295.4 BTO6-12954-LFB BTO6-12954-ULF	X mm	Tsubaki model no.	Tsubaki model no.
1295.4 BTO6-12954-LFB BTO6-12954-ULF	1143.0	BTO6-11430-LFB	BTO6-11430-ULF
121011 2100 12101 2100 12101 2	1219.2	BTO6-12192-LFB	BTO6-12192-ULF
1371.6 BTO6-13716-LFB BTO6-13716-ULF	1295.4	BTO6-12954-LFB	BTO6-12954-ULF
	1371.6	BTO6-13716-LFB	BTO6-13716-ULF
1447.8 BTO6-14478-LFB BTO6-14478-ULF	1447.8	BTO6-14478-LFB	BTO6-14478-ULF
1524.0 BTO6-15240-LFB BTO6-15240-ULF	1524.0	BTO6-15240-LFB	BTO6-15240-ULF

Note: 1. Custom chain widths and widths greater than 1,524mm are available upon request. Contact a Tsubaki representative for further information.

2. Chain width X shown is a nominal width. Chain width is subject to expansion or contraction with changes in temperature. Expansion/contraction rate is 0.00015/°C based on reference temperature of 20°C.

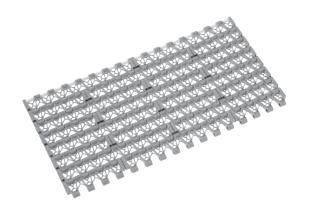


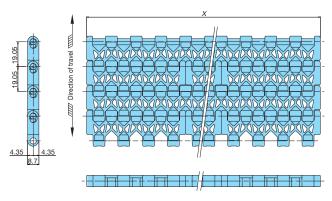




Plastic Modular Chain BTN6

Net Type: Straight Running





Dimensions in mm

Material mark	Chain pitch mm	Link color	Open area %	Max. allowable load kN/m {kgf/m}	Chain mass kg/m²	Operating temperature range °C	Pin material
LFB		Brown					
MWS		Cream		11.6 {1180}	5.58		
ULF	19.05	Blue	53			-20 to 80 (60)	Special engineering plastic
DIA		Cream		8.83 { 900}	4.60		piasiic
DIY		Green		0.03 { 700}	6.60		

Note: 1. Operating temperature of (60) is for wet conditions. When plastic pins are replaced with stainless steel pins, the chain can be used from 60°C to 80°C in wet conditions. In this case, initial chain length will be approx. 1% longer and chain mass heavier. Be sure to contact a Tsubaki representative before use.

2. Values for max. allowable load assume that tension acts uniformly over the entire chain width and will vary according to operating conditions (temperature and speed). Contact a Tsubaki representative for chain max. allowable load graphs. Values for max. allowable load in the table above are for chain that is one meter (1m) in width. To calculate values for other chain widths, multiply the chain width in question by the max. allowable load for one-meter (1m) wide chain. (Example: Max. allowable load for BTN6-3048-LFB = $11.6 \times 304.8/1000 = 3.5 \text{ kN}$)

Material

	Material	Material	Link color	Max. allowable load		e speed m/min	Operating	BTN6
		mark		kN/m {kgf/m}	With lube	No lube	temperature range °C	
	Standard	-	Gray					
		LFW	White					
	Low Friction/Anti-Wear	LFG	Green	11.6{1180}	50	50	-20 to 80 (60)	0
Standard		LFB	Brown					
chain	Ultra Low Friction	ULF	Blue					
	Low Friction	WR	Green					
		UL	Green	_ y	_	_	-	-
		NLF	Dark gray					
	Heat Resistant/ High Speed	KV150		-				
		KV180	Black		-			
		KV250	1			_	_	_
	High Temperature	HTW	White					
	Low Temperature	LTW	White	3.82{390}	15	15	-70 to 60	0
High-function	Chemical Resistant	Υ	Matte white	5.8{590}	50		-20 to 80 (60)	A
chain	Electroconductive	Е	Black	8.1{830}	30		-20 10 00 (00)	
	Inner out Desistant	DIA	Cream	0.03(000)	-	50	-20 to 80	1
	Impact Resistant	DIY	Green	8.83{900}	50		20 +- 90 (40)	0
	Antibacterial/Mold Resistant	MWS	Cream	11.6{1180}	50		-20 to 80 (60)	
	Metal Detectable	MPD	- Black		Contact a Tsubaki representative.			•
	Meiai Defectable	MPW	DICK		Contact a Isubal	a representative.		

Note: 1. (): Made-to-order product — : Not available — &: Special configurations may be available. Contact a Tsubaki representative for further information. 2. See precautionary notes above regarding maximum allowable load and operating temperature range.

Chain (Plastic Pins)

Chain width	LFB	ULF
X mm	Tsubaki model no.	Tsubaki model no.
76.2	BTN6-762-LFB	BTN6-762-ULF
152.4	BTN6-1524-LFB	BTN6-1524-ULF
228.6	BTN6-2286-LFB	BTN6-2286-ULF
304.8	BTN6-3048-LFB	BTN6-3048-ULF
381.0	BTN6-3810-LFB	BTN6-3810-ULF
457.2	BTN6-4572-LFB	BTN6-4572-ULF
533.4	BTN6-5334-LFB	BTN6-5334-ULF

Chain width	LFB	ULF
X mm	Tsubaki model no.	Tsubaki model no.
609.6	BTN6-6096-LFB	BTN6-6096-ULF
685.8	BTN6-6858-LFB	BTN6-6858-ULF
762.0	BTN6-7620-LFB	BTN6-7620-ULF
838.2	BTN6-8382-LFB	BTN6-8382-ULF
914.4	BTN6-9144-LFB	BTN6-9144-ULF
990.6	BTN6-9906-LFB	BTN6-9906-ULF
1066.8	BTN6-10668-LFB	BTN6-10668-ULF

Chain width	LFB	ULF		
X mm	Tsubaki model no.	Tsubaki model no.		
1143.0	BTN6-11430-LFB	BTN6-11430-ULF		
1219.2	BTN6-12192-LFB	BTN6-12192-ULF		
1295.4	BTN6-12954-LFB	BTN6-12954-ULF		
1371.6	BTN6-13716-LFB	BTN6-13716-ULF		
1447.8	BTN6-14478-LFB	BTN6-14478-ULF		
1524.0	BTN6-15240-LFB	BTN6-15240-ULF		

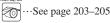
Note: 1. Custom chain widths and widths greater than 1,524mm are available upon request. Contact a Tsubaki representative for further information.

2. Chain width X shown is a nominal width. Chain width is subject to expansion or contraction with changes in temperature. Expansion/contraction rate is 0.00015/°C based on reference temperature of 20°C.

Contact a Tsubaki representative for sprocket attachment positions.



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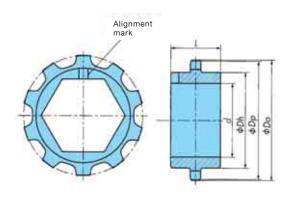
Sprockets for BT6 Chain

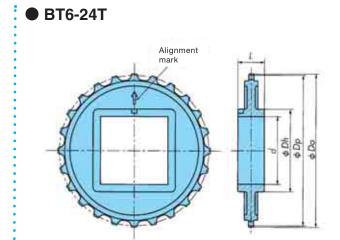
Engineering Plastic

Applicable chain

BTC6, BTO6, BTN6

BT6-10T





Sprockets for LFB, MWS, ULF, DIA, and DIY Series

	-										
	Tsubaki model no.	Teeth	Pitch diameter <i>Dp</i> mm	Outside diameter Do mm	Hub Diameter Dh	mm Length <i>L</i>	Bore diameter d mm	Approx. mass g	Shaft	Material (color)	Туре
	BT6-10T-38H	10	61.65	62.5	50	25.4	38	30	Hexagonal 38 polished steel bar		
	BT6-24T-40S	24	145.95	148.0	80	25.4	40	260	Square 40 polished steel bar	Reinforced polyamide	Solid
_	BT6-24T-50S	24	145.95	148.0	80	25.4	50	230	Square 50 polished steel bar	(black)	Solid
-	BT6-24T-65S	24	145.95	148.0	80	25.4	65	170	Square 65 polished steel bar	(Didek)	

- Note: 1. Operating temperature range: -20°C to 80°C
 2. The BT6-10T sprocket can reduce the dead space in conveyors and work to make the conveyor more compact.
 3. The BT6-24T sprocket can minimize chain-speed variations resulting from chordal action, ensuring smooth conveyance.
 4. BT6 sprockets are made to fit loosely on the shaft to absorb differences in thermal expansion between the chain and conveyor, and alignment errors between the
 - 5. BT6 sprockets have an alignment mark for phase matching.
 - 6. The number of BT6 sprockets installed, and positions where BT6 sprockets are installed, will vary depending on load conditions. Contact a Tsubaki representative
 - 7. Made-to-order product.

Sprockets for KV150 and KV250 Series

Tsubaki model no.	Teeth	Bore diameter	Approx. mass g	Shaft	Material	Operating temperature range
BT6-KV-10T-38H	10	38	40	Hexagonal 38 polished steel bar	Special engineering plastic	80°C to 200°C
BT6-KV-24T-50S	24	50	290	Square 50 polished steel bar	Special engineering plastic	80 C 10 200 C

- 1. Materials and sizes for KV series sprockets will vary depending on operating temperatures. Be sure to contact a Tsubaki representative before use.

 - Sprockets having numbers of teeth other than those above can also be manufactured.
 Sprockets for LFB chain can be used when operating temperature is in the range from -20°C to 80°C.
 Made-to-order product.

Model Numbering



H: Hexagonal

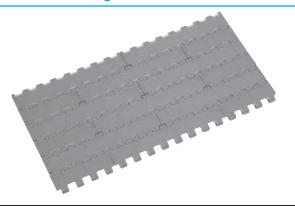
S: Square

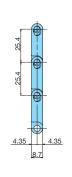
Note: Do not leave spaces between letters and symbols.

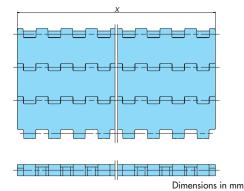
Plastic Modular Chain BTC8

Closed Type: Straight Running

No tab guide attachments







Material mark	Chain pitch mm	Link color	Open area %	Max. allowable load kN/m {kgf/m}	Chain mass kg/m²	Operating temperature range °C	Pin material
LFB		Brown					
MWS		Cream		12.8 {1300}	5.90		
ULF	25.4	Blue 2.5			-20 to 80 (60)	Special engineering plastic	
DIA		Cream		9.8 {1000}	5.25		piasiic
DIY		Green		7.0 (1000)	7.90		

Note: 1. Operating temperature of (60) is for wet conditions. When plastic pins are replaced with stainless steel pins, the chain can be used from 60°C to 80°C in wet conditions. In this case, initial chain length will be slightly longer and chain mass heavier. Be sure to contact a Tsubaki representative before use.

2. Values for max. allowable load assume that tension acts uniformly over the entire chain width and will vary according to operating conditions (temperature and speed). Contact a Tsubaki representative for chain max. allowable load graphs. Values for max. allowable load in the table above are for chain that is one meter (1m) in width. To calculate values for other chain widths, multiply the chain width in question by the max. allowable load for one-meter (1m) wide chain. (Example: Max. allowable load for BTC8-3048-LFB = $12.8 \times 304.8/1000 = 3.9 \text{ kN}$)

Material

	Material	Material mark	Link color	Max. allowable load kN/m {kgf/m}	Max. allowable	e speed m/min No lube	Operating temperature range °C	BTC8
	Standard	_	Gray	Ki v/ III [Kgi/ III]	VVIIII IODE	140 1006	icinperatore range C	
	Sidridara							
		LFW	White					
	Low Friction/Anti-Wear	LFG	Green	12.8{1300}	50	50	-20 to 80 (60)	0
Standard		LFB	Brown					
chain	Ultra Low Friction	ULF	Blue					
	Low Friction	WR	Green			_		
		UL	Green		_		_	_
		NLF	Dark gray					
	Heat Resistant/ High Speed	KV150		-				
		KV180	Black					
		KV250]		_	_	_	_
	High Temperature	HTW	White					
	Low Temperature	LTW	vvniie	4.22{430}	15	15	-70 to 60	0
High-function	Chemical Resistant	Υ	Matte white	6.4{650}	50		-20 to 80 (60)	A
chain	Electroconductive	Е	Black	9.0{910}	30		-20 10 60 (60)	
	Inner and Desirtant	DIA	Cream	0.00110001	-	50	-20 to 80	
	Impact Resistant	DIY	Green	9.8{1000}	50	1	201. 201/(0)	
	Antibacterial/Mold Resistant	MWS	Cream	12.8{1300}] 30		-20 to 80 (60)	
	Metal Detectable	MPD	DII-		C. I. T. I. I.			
	Metal Detectable	MPW	DICK	Black		Contact a Tsubaki representative.		

1. \bigcirc : Made-to-order product —: Not available —: Special configurations may be available. Contact a Tsubaki representative for further information. 2. See precautionary notes above regarding maximum allowable load and operating temperature range. Note: 1. \bigcirc : Made-to-order product

Chain (Plastic Pins)

	•			
Chain width	LFB	ULF		
X mm	Tsubaki model no.	Tsubaki model no.		
76.2	BTC8-762-LFB	BTC8-762-ULF		
152.4	BTC8-1524-LFB	BTC8-1524-ULF		
228.6	BTC8-2286-LFB	BTC8-2286-ULF		
304.8	BTC8-3048-LFB	BTC8-3048-ULF		
381.0	BTC8-3810-LFB	BTC8-3810-ULF		
457.2	BTC8-4572-LFB	BTC8-4572-ULF		
533.4	BTC8-5334-LFB	BTC8-5334-ULF		

Chain width	LID	OLI
X mm	Tsubaki model no.	Tsubaki model no.
609.6	BTC8-6096-LFB	BTC8-6096-ULF
685.8	BTC8-6858-LFB	BTC8-6858-ULF
762.0	BTC8-7620-LFB	BTC8-7620-ULF
838.2	BTC8-8382-LFB	BTC8-8382-ULF
914.4	BTC8-9144-LFB	BTC8-9144-ULF
990.6	BTC8-9906-LFB	BTC8-9906-ULF
1066.8	BTC8-10668-LFB	BTC8-10668-ULF
	X mm 609.6 685.8 762.0 838.2 914.4 990.6	X mm Tsubaki model no. 609.6 BTC8-6096-LFB 685.8 BTC8-6858-LFB 762.0 BTC8-7620-LFB 838.2 BTC8-8382-LFB 914.4 BTC8-9144-LFB 990.6 BTC8-9906-LFB

Chain width	LFB	ULF
X mm	Tsubaki model no.	Tsubaki model no.
1143.0	BTC8-11430-LFB	BTC8-11430-ULF
1219.2	BTC8-12192-LFB	BTC8-12192-ULF
1295.4	BTC8-12954-LFB	BTC8-12954-ULF
1371.6	BTC8-13716-LFB	BTC8-13716-ULF
1447.8	BTC8-14478-LFB	BTC8-14478-ULF
1524.0	BTC8-15240-LFB	BTC8-15240-ULF

Note: 1. Custom chain widths and widths greater than 1,524mm are available upon request. Contact a Tsubaki representative for further information.

2. Chain width X shown is a nominal width. Chain width is subject to expansion or contraction with changes in temperature. Expansion/contraction rate is 0.00015/°C based on reference temperature of 20°C.

Contact a Tsubaki representative for sprocket attachment positions.



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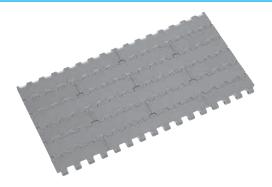


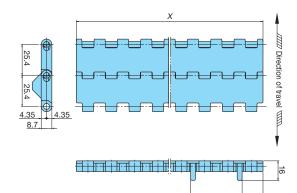
···See page 203–205

Plastic Modular Chain BTC8-A

Closed Type: Straight Running

With tab guide attachments





Dimensions in mm

Material mark	Chain pitch mm	Link color	Open area %	Max. allowable load kN/m {kgf/m}	Chain mass kg/m²	Operating temperature range °C	Pin material	
LFB		Brown						
MWS		Cream		12.8 {1300}	5.90			
ULF	25.4	Blue	2.5			-20 to 80 (60)	Special engineering plastic	
DIA	-	Cream		9.8 {1000}	5.25			
DIY		Green		7.6 {1000}	7.90			

- Note: 1. Operating temperature of (60) is for wet conditions. When plastic pins are replaced with stainless steel pins, the chain can be used from 60°C to 80°C in wet conditions. In this case, initial chain length will be slightly longer and chain mass heavier. Be sure to contact a Tsubaki representative before use.

 2. Values for max. allowable load assume that tension acts uniformly over the entire chain width and will vary according to operating conditions (temperature and speed). Contact a Tsubaki representative for chain max. allowable load graphs. Values for max. allowable load in the table above are for chain that is one meter (1m) in width. To calculate values for other chain widths, multiply the chain width in question by the max. allowable load for one-meter (1m) wide chain.

 (Example: Max. allowable load for BTC8-3048-A-LFB = 12.8 x 304.8/1000 \(\frac{1}{2} \), 8 kN)
 - 3. Chain with tab guide attachments will be 0.5 kg/m heavier. Tab guide attachments are attached to every second link on one side of the chain.

Material

	Material	Material	Link color	Max. allowable load	Max. allowable	e speed m/min	Operating	BTC8-A	
	Material	mark	LINK COIOF	kN/m {kgf/m}	With lube	No lube	temperature range °C	DICO-A	
	Standard	-	Gray						
		LFW	White						
	Low Friction/Anti-Wear	LFG	Green	12.8{1300}	50	50	-20 to 80 (60)	0	
Standard		LFB	Brown						
chain	Ultra Low Friction	ULF	Blue						
		WR	Green						
	Low Friction	UL	Green	_	_	_	_	_	
		NLF	Dark gray						
	Heat Resistant/ High Speed	KV150		-	-				
		KV180	Black						
	5 .	KV250				-	-	-	
	High Temperature	HTW	White						
	Low Temperature	LTW	**************************************						
High-function	Chemical Resistant	Υ	Matte white	6.4{ 650}	50		-20 to 80 (60)	A	
chain	Electroconductive	Е	Black	9.0{910}	30		20 10 00 (00)		
	Impact Resistant	DIA	Cream	9.8{1000}	_	50	-20 to 80	0	
	·	DIY	Green	7.0(1000)	50		-20 to 80 (60)	0	
	Antibacterial/Mold Resistant	MWS	Cream	12.8{1300}	30		-20 10 60 (60)		
	Metal Detectable	MPD	Black		Contact a Tsubaki representative.				
	Micial Delectuble	MPW	Віаск		Corriaci a isobaki representative.				

Note: 1. (): Made-to-order product — : Not available — &: Special configurations may be available. Contact a Tsubaki representative for further information. 2. See precautionary notes above regarding maximum allowable load and operating temperature range.

Chain (Plastic Pins)

Chain width	LFB	ULF
X mm	Tsubaki model no.	Tsubaki model no.
76.2	BTC8-762-A-LFB	BTC8-762-A-ULF
152.4	BTC8-1524-A-LFB	BTC8-1524-A-ULF
228.6	BTC8-2286-A-LFB	BTC8-2286-A-ULF
304.8	BTC8-3048-A-LFB	BTC8-3048-A-ULF
381.0	BTC8-3810-A-LFB	BTC8-3810-A-ULF
457.2	BTC8-4572-A-LFB	BTC8-4572-A-ULF
533.4	BTC8-5334-A-LFB	BTC8-5334-A-ULF

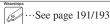
Chain width	LFB	ULF
X mm	Tsubaki model no.	Tsubaki model no.
609.6	BTC8-6096-A-LFB	BTC8-6096-A-ULF
685.8	BTC8-6858-A-LFB	BTC8-6858-A-ULF
762.0	BTC8-7620-A-LFB	BTC8-7620-A-ULF
838.2	BTC8-8382-A-LFB	BTC8-8382-A-ULF
914.4	BTC8-9144-A-LFB	BTC8-9144-A-ULF
990.6	BTC8-9906-A-LFB	BTC8-9906-A-ULF
1066.8	BTC8-10668-A-LFB	BTC8-10668-A-ULF

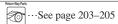
Chain width	LFB LFB	ULF
X mm	Tsubaki model no.	Tsubaki model no.
1143.0	BTC8-11430-A-LFB	BTC8-11430-A-ULF
1219.2	BTC8-12192-A-LFB	BTC8-12192-A-ULF
1295.4	BTC8-12954-A-LFB	BTC8-12954-A-ULF
1371.6	BTC8-13716-A-LFB	BTC8-13716-A-ULF
1447.8	BTC8-14478-A-LFB	BTC8-14478-A-ULF
1524.0	BTC8-15240-A-LFB	BTC8-15240-A-ULF

Note: 1. Custom chain widths and widths greater than 1,524mm are available upon request. Contact a Tsubaki representative for further information.

2. Chain width X shown is a nominal width. Chain width is subject to expansion or contraction with changes in temperature. Expansion/contraction rate is 0.00015/°C based on reference temperature of 20°C.







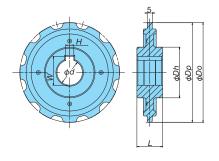
Engineering Plastic

Sprockets for BT8 Chain

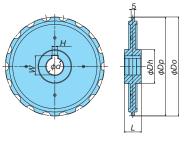
Applicable chain

BTC8 (Note: Cannot be used with BTO8-M chain.)

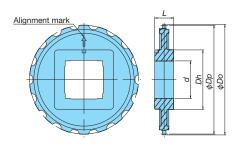
BT8-12T-25



BT8-18T-25



BT8-18T-40S/50S/65S



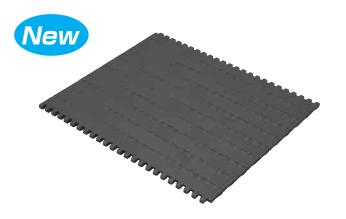
Tsubaki model no.	Teeth	Pitch diameter <i>Dp</i>	Outside diameter Do	Diameter Dh		Bore diameter d		way H	Approx. mass g	Shaft	Material (color)	Туре
BT8-12T-25	12	98.14	98.5	φ50	25.4	φ 25.1	8.1	28.4	90	Round 25 polished steel bar		
BT8-18T-25	18	146.27	147.0	φ50	25.4	φ 25.1	8.1	28.4	190	Round 25 polished steel bar	Reinforced	
BT8-18T-40S	18	146.27	147.0	80.0	25.4	40	-	_	250	Square 40 polished steel bar	polyamide	Solid
BT8-18T-50S	18	146.27	147.0	80.0	25.4	50	_	_	225	Square 50 polished steel bar	(black)	
BT8-18T-65S	18	146.27	147.0	80.0	25.4	65	-	-	165	Square 65 polished steel bar		

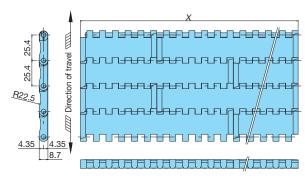
- Note: 1. Operating temperature range: -20°C to 80°C
 2. BT8 sprockets are made to fit loosely on the shaft to absorb differences in thermal expansion between the chain and conveyor, and alignment errors between the sprocket and chain.
 3. BT8 sprockets (square bore) have an alignment mark for phase matching.
 4. The number of BT8 sprockets installed, and positions where BT8 sprockets are installed, will vary depending on load conditions. Contact a Tsubaki representative for sprocket attachment positions.
 5. Cannot be used with BTO8-M chain.

 - Made-to-order product.
 Contact a Tsubaki representative when considering BT8-12T25 or BT8-18T25 sprockets.

Plastic Modular Chain BTC85

Closed Type: Straight Running





Dimensions in mm

Material mark	Chain pitch mm	Link color	Open area	Max. allowable load kN/m {kgf/m}	Chain mass kg/m²	Max. allowable With lube	e speed m/min No lube	Operating temperature range °C	Pin material
Standard	25.4	Blue	3	12.8 {1305}	8.5	5	0	-20 to 80 (60)	Special engineering plastic

Note: 1. Operating temperature of (60) is for wet conditions.

- 2. Values for max. allowable load assume that tension acts uniformly over the entire chain width and will vary according to operating conditions (temperature and speed). Contact a Tsubaki representative for chain max. allowable load graphs. Values for max. allowable load in the table above are for chain that is one meter (1m) in width. To calculate values for other chain widths, multiply the chain width in question by the max. allowable load for one-meter (1m) wide chain. (Example: Max. allowable load for BTC8S-3048 = 12.8 x 304.8/1000 \(\displays \) 3.9 kN)

 3. Made-to-order product.

Chain (Plastic Pins)

Chain width	Standard
X mm	Tsubaki model no.
76.2	BTC8S-762
152.4	BTC8S-1524
228.6	BTC8S-2286
304.8	BTC8S-3048
381.0	BTC8S-3810
457.2	BTC8S-4572
533.4	BTC8S-5334
609.6	BTC8S-6096
685.8	BTC8S-6858
762.0	BTC8S-7620

Chain width	Standard
X mm	Tsubaki model no.
838.2	BTC8S-8382
914.4	BTC8S-9144
990.6	BTC8S-9906
1066.8	BTC8S-10668
1143.0	BTC8S-11430
1219.2	BTC8S-12192
1295.4	BTC8S-12954
1371.6	BTC8S-13716
1447.8	BTC8S-14478
1524.0	BTC8S-15240

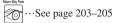
Note: 1. Widths greater than 1,524mm are available upon request.

2. Chain width X shown is a nominal width. Chain width is subject to expansion or contraction with changes in temperature. Expansion/contraction rate is 0.00015/°C based on reference temperature of 20°C.

Contact a Tsubaki representative for sprocket attachment positions.



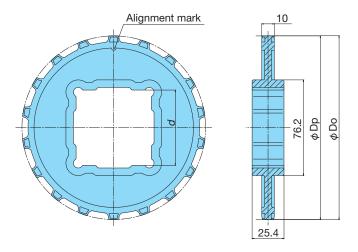
See page 191/193



Engineering Plastic

Sprockets for BTC8S Chain

Applicable chain BTC8S



Tsubaki model no.	Teeth	Pitch diameter Dp	Outside diameter <i>Do</i>	Bore diameter d	Approx. mass g	Shaft	Material (color)	Туре
BT8S-18T-40S	18	146.27	146.5	40	230	Square 40 polished steel bar	Polyamide	Solid
BT8S-18T-60S	10	140.27	140.3	60	120	Square 60 polished steel bar	(light gray)	Solid

Note: 1. Operating temperature range: -20°C to 80°C

- 2. BTBS sprockets are made to fit loosely on the shaft to absorb differences in thermal expansion between the chain and conveyor, and alignment errors between the sprocket and chain.
- 3. Made-to-order product.

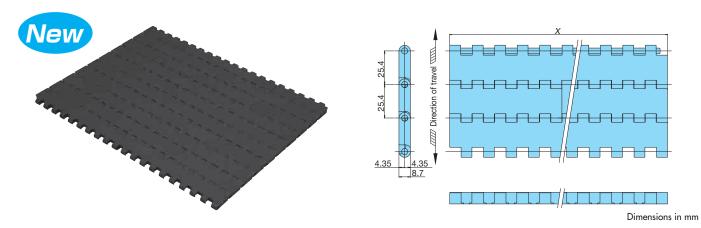
Model Numbering



S: Square

Note: Do not leave spaces between letters and symbols.

Plastic Modular Chain WT2250FT Closed Type: Straight Running



Material mark	Chain pitch mm	Link color	Open area	Max. allowable load kN/m {kgf/m}	Chain mass kg/m²	Max. allowable With lube	e speed m/min No lube	Operating temperature range °C	Pin material
Standard G		Gray		12.8 {1305}	9.6			-20 to 80 (60)	Special engineering plastic
High Temperature HTW	25.4	White	3	6.4 { 650}	6.9	50		5 to 105	Polypropylene

Note: 1. Operating temperature of (60) is for wet conditions.

- 2. Values for max. allowable load assume that tension acts uniformly over the entire chain width and will vary according to operating conditions (temperature and speed). Contact a Tsubaki representative for chain max. allowable load graphs. Values for max. allowable load in the table above are for chain that is one meter (1m) in width. To calculate values for other chain widths, multiply the chain width in question by the max. allowable load for one-meter (1m) wide chain.

 [Example: Max. allowable load for WT2250FT-W340-G = 12.8 x 340/1000 \(\display = 4.4 \) kN)
- 3. Made-to-order product.

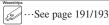
Chain (Plastic Pins)

Chain width	G	HTW		
X mm	Tsubaki model no.	Tsubaki model no.		
85	WT2250FT-W85-G	WT2250FT-W85-HTW		
170	WT2250FT-W170-G	WT2250FT-W170-HTW		
255	WT2250FT-W255-G	WT2250FT-W255-HTW		
340	WT2250FT-W340-G	WT2250FT-W340-HTW		
425	WT2250FT-W425-G	WT2250FT-W425-HTW		
510	WT2250FT-W510-G	WT2250FT-W510-HTW		
595	WT2250FT-W595-G	WT2250FT-W595-HTW		
680	WT2250FT-W680-G	WT2250FT-W680-HTW		
765	WT2250FT-W765-G	WT2250FT-W765-HTW		
850	WT2250FT-W850-G	WT2250FT-W850-HTW		
935	WT2250FT-W935-G	WT2250FT-W935-HTW		
1020	WT2250FT-W1020-G	WT2250FT-W1020-HTW		
1105	WT2250FT-W1105-G	WT2250FT-W1105-HTW		
1190	WT2250FT-W1190-G	WT2250FT-W1190-HTW		
1275	WT2250FT-W1275-G	WT2250FT-W1275-HTW		
1360	WT2250FT-W1360-G	WT2250FT-W1360-HTW		
1445	WT2250FT-W1445-G	WT2250FT-W1445-HTW		
1530	WT2250FT-W1530-G	WT2250FT-W1530-HTW		
1615	WT2250FT-W1615-G	WT2250FT-W1615-HTW		
1700	WT2250FT-W1700-G	WT2250FT-W1700-HTW		

1. Widths greater than 1,700mm are available upon request.

2. Chain width X shown is a nominal width. Chain width is subject to expansion or contraction with changes in temperature. Expansion/contraction rate is 0.00015/°C based on reference temperature of 20°C.

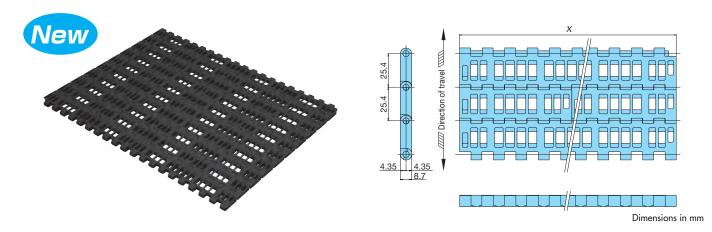






Plastic Modular Chain WT2250FG

Open Type: Straight Running



Material mark	Chain pitch mm	Link color	Open area	Max. allowable load kN/m {kgf/m}	Chain mass kg/m²	Max. allowable	e speed m/min No lube	Operating temperature range °C	Pin material
Standard G		Gray		12.8 {1305}		·		-20 to 80 (60)	Special engineering plastic
High Temperature HTW	25.4	White	23	6.4 { 650}	5.6	5	0	5 to 105	Polypropylene

- Note: 1. Operating temperature of (60) is for wet conditions.

 2. Values for max. allowable load assume that tension acts uniformly over the entire chain width and will vary according to operating conditions (temperature and speed). Contact a Tsubaki representative for chain max. allowable load graphs. Values for max. allowable load in the table above are for chain that is one meter (1m) in width. To calculate values for other chain widths, multiply the chain width in question by the max. allowable load for one-meter (1m) wide chain.

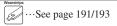
 (Example: Max. allowable load for WT2250FG-W340-G = 12.8 x 340/1000 \(\div \) 4.4 kN)
 - 3. Made-to-order product.

Chain (Plastic Pins)

Chain width	G	HTW				
X mm	Tsubaki model no.	Tsubaki model no.				
85	WT2250FG-W85-G	WT2250FG-W85-HTW				
170	WT2250FG-W170-G	WT2250FG-W170-HTW				
255	WT2250FG-W255-G	WT2250FG-W255-HTW				
340	WT2250FG-W340-G	WT2250FG-W340-HTW				
425	WT2250FG-W425-G	WT2250FG-W425-HTW				
510	WT2250FG-W510-G	WT2250FG-W510-HTW				
595	WT2250FG-W595-G	WT2250FG-W595-HTW				
680	WT2250FG-W680-G	WT2250FG-W680-HTW				
765	WT2250FG-W765-G	WT2250FG-W765-HTW				
850	WT2250FG-W850-G	WT2250FG-W850-HTW				
935	WT2250FG-W935-G	WT2250FG-W935-HTW				
1020	WT2250FG-W1020-G	WT2250FG-W1020-HTW				
1105	WT2250FG-W1105-G	WT2250FG-W1105-HTW				
1190	WT2250FG-W1190-G	WT2250FG-W1190-HTW				
1275	WT2250FG-W1275-G	WT2250FG-W1275-HTW				
1360	WT2250FG-W1360-G	WT2250FG-W1360-HTW				
1445	WT2250FG-W1445-G	WT2250FG-W1445-HTW				
1530	WT2250FG-W1530-G	WT2250FG-W1530-HTW				
1615	WT2250FG-W1615-G	WT2250FG-W1615-HTW				
1700	WT2250FG-W1700-G	WT2250FG-W1700-HTW				

Note: 1. Widths greater than 1,700mm are available upon request.
2. Chain width X shown is a nominal width. Chain width is subject to expansion or contraction with changes in temperature. Expansion/contraction rate is 0.00015/°C based on reference temperature of 20°C.







WT2250FT/FG Flight Plastic Modular Chain

Straight Running

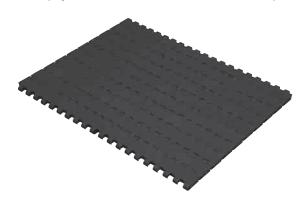
A new line-up of plastic modular chain on which flights can be mounted to enable inclined conveyance of bulk material or loose items.

New

Flight-Attachable Chain

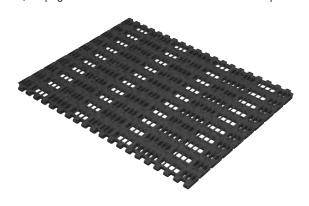
● WT2250FT-G/HTW

(See page 51 for maximum allowable load and other parameters)



WT2250FG-G/HTW

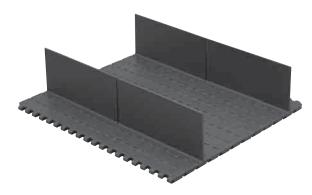
(See page 52 for maximum allowable load and other parameters)



Inclined conveyor with attached flights



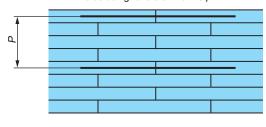
Example of flight shape

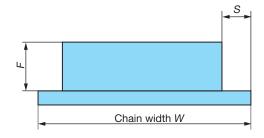


Flight Dimensions

The following dimensions must be determined in order to install flights:

- P = flight mount spacing (Flights can be mounted at integral multiples of the chain pitch of 25.4mm.)
- F = flight height (Select from 25.4mm, 50.8mm, or 76.2mm.)
- S = indent (Select from 0mm, 17mm, 34mm, or 51mm. Indents are necessary to support the chain on the return side using rollers or the like.)





Note: Made-to-order product. Contact a Tsubaki representative for further information.

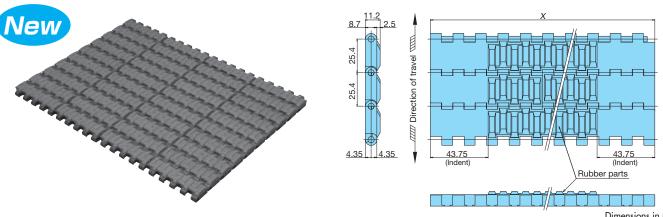


WT2250FT/FG Flight Plastic Modular Chain Inquiry Sheet

Please give us the following information when placing an order for or inquiring about WT2250FT/FG Flight Plastic Modular Chain.

WT2250FT/FG Inquiry Sheet							
Company Name			N	ame			
Tel.			Fa	ax			
Chain Type	☐ FT (closed t	ype)		FG (open type)		
Chain Width W			mm '	tandard chain v crements)	vidth is 170mm	and availab	le in 85mm
Chain Material	☐ Standard G	(polyacetal:	gray)	☐ High Temp	perature HTW (μ	oolypropyle	ne: white)
Flight Mount Spacing P			mm (F	lights can be m	ounted in 25.4r	nm intervals	s)
Flight Height F	□ 25.4mm	ı □ 50.	8 m m [76.2mm	☐ Other	(m	m)
Indent S	□ 17mm	□ 34m	m 🗆 5	5 1 mm 🗆 C	Other (n	nm)	
	Description	☐ New in:	stallation	Remodelir	ıg (existing equ	ipment:)
Equipment	Lovout		diagram)				
	Horizontal Conveyance Distance	(drive side)		mı	n (driven side)		mm
	Conveyed Object			Mass			kg/m²
Convoyed	Conveying Speed		m/min			°C	
Conveyed Object	Temperature of Conveyed Object		°C	C Conveyance Amount		kg/min	
	Impact	□ No	☐ Yes (d	description:)

Plastic Modular Chain WT2250VG Rubber Type: Inclined Conveyance



Dimensions	in	mr
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Material mark	Chain pitch	Link color	Open area	Max. allowable load kN/m {kgf/m}	Chain mass kg/m²	Max. allowable With lube	e speed m/min No lube	Operating temperature range °C	Pin material
Standard	1	Chain body: Gray Rubber parts: Blue	3	12.8 {1305}	11.3	5	0	-20 to 80 (60)	Special engineering plastic

Note: 1. Operating temperature of (60) is for wet conditions.

- 2. Values for max. allowable load assume that tension acts uniformly over the entire chain width and will vary according to operating conditions (temperature and speed). Contact a Tsubaki representative for chain max. allowable load graphs. Values for max. allowable load in the table above are for chain that is one meter (1m) in width. To calculate values for other chain widths, multiply the chain width in question by the max. allowable load for one-meter (1m) wide chain. (Example: Max. allowable load for WT2250VG-W340 = 12.8 x 340/1000 \(\display 4.4 kN) \)
- Made-to-order product.
 Rubber material: thermoplastic rubber.

Chain (Plastic Pins)

Chain width	G
X mm	Tsubaki model no.
85	WT2250VG-W85-G
170	WT2250VG-W170-G
255	WT2250VG-W255-G
340	WT2250VG-W340-G
425	WT2250VG-W425-G
510	WT2250VG-W510-G
595	WT2250VG-W595-G
680	WT2250VG-W680-G
765	WT2250VG-W765-G
850	WT2250VG-W850-G

Chain width	G
X mm	Tsubaki model no.
935	WT2250VG-W935-G
1020	WT2250VG-W1020-G
1105	WT2250VG-W1105-G
1190	WT2250VG-W1190-G
1275	WT2250VG-W1275-G
1360	WT2250VG-W1360-G
1445	WT2250VG-W1445-G
1530	WT2250VG-W1530-G
1615	WT2250VG-W1615-G
1700	WT2250VG-W1700-G

Note: 1. Widths greater than 1,700mm are available upon request.

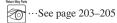
- 2. Chain width X shown is a nominal width. Chain width is subject to expansion or contraction with changes in temperature. Expansion/contraction rate is 0.00015/°C based on reference temperature of 20°C.

 3. Rubber type plastic modular chains require indents (areas where there is no rubber). These indent areas are used together with return rollers to support the chain on
- the return way.

Contact a Tsubaki representative for sprocket attachment positions.



···See page 191/193



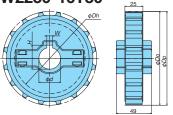
Sprockets & Idler Wheels for WT2250FT/FG Chain Engineering Plastic

Applicable chain

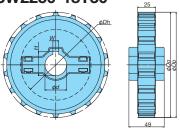
WT2250FT, WT2250FG, WT2250VG

Sprockets

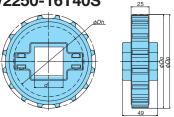
WT-SW2250-16T30



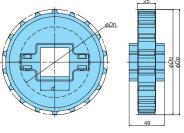




WT-SW2250-16T40S



WT-SW2250-18T40S

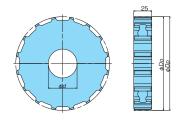


Tsubaki model no.	Pitch Outside Bore Keyway Bore			Shaft	Material	Туре				
		$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		shape	nape		.,,,,,			
WT-SW2250-16T30	16	130.2	130	φ30	8	33.3	Round	Round 30 polished steel bar		
WT-SW2250-16T40S	10	130.2	130	40	-	-	Square	Square 40 polished steel bar	Reinforced	Split
WT-SW2250-18T30	18	146.3	146	φ30	8	33.3	Round	Round 30 polished steel bar	polyamide (black)	
WT-SW2250-18T40S	10	140.3	140	40	_	_	Square	Square 40 polished steel bar] ' '	

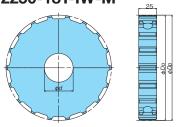
- Note: 1. Operating temperature range: -20°C to 80°C
 2. Square-hole sprockets are made to fit loosely on the shaft to absorb differences in thermal expansion between the chain and conveyor, and alignment errors between the sprocket and chain.
 - 3. Round-bore sprockets should be used only for chain widths of less than 680mm and under conditions in which the temperature will vary by less than ±30°C.
 - 4. Made-to-order product.

Idler Wheels

WT-SW2250-16T-IW-M



WT-SW2250-18T-IW-M



Tsubaki model no.	Teeth	Pitch diameter <i>Dp</i>	Outside diameter Do	Bore diameter d	Shaft	Material	Туре
WT-SW2250-16T30IW-M	1.4	130.2	130	φ30	Round 30 polished steel bar		c In
WT-SW2250-16T40IW-M	16	130.2		φ 40	Round 40 polished steel bar	Polyamide	
WT-SW2250-18T30IW-M	18	146.3	1.47	φ30	Round 30 polished steel bar	(white)	Split
WT-SW2250-18T40IW-M	10	140.3	146	φ 40	Round 40 polished steel bar		

Note: 1. Operating temperature range: -20°C to 80°C 2. For idler wheel use only.
3. Made-to-order product.

Model Numbering



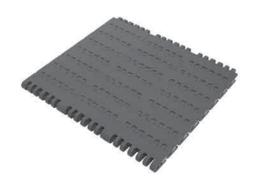
SW: Split

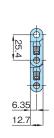
[blank]: Round hole (with keyway) IW: Round hole (no keyway; idler wheel)

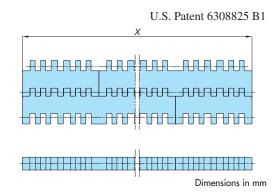
Note: Do not leave spaces between letters and symbols.

Plastic Modular Chain WT2505-K

Closed Type: Straight Running







Material mark	Chain pitch mm	Link color	Open area %	Max. allowable load kN/m {kgf/m}	Chain mass kg/m²	Operating temperature range °C	Pin material
ULF	25.4	Blue	2	29.4{3000}	12.6	-20 to 80 (60)	Polypropylene
LFG	23.4	Green	3	29.4{3000}	12.0	-20 10 80 (80)	rolypropylene

- Note: 1. Values for max. allowable load are at ambient temperature (20°C) and assume that tension acts uniformly over the entire chain width. Values for max. allowable load in the table above are for chain that is one meter (1m) in width. To calculate values for other chain widths, multiply the chain width in question by the max. allowable load for one-meter (1 m) wide chain.
 - 2. Operating temperature of (60) is for wet conditions. 3. Made-to-order product.

Material

	Material	Material	Link color	Max. allowable load	Max. allowable	e speed m/min	Operating	WT2505-K
	Maleriai	mark	LITIK COIOI	kN/m {kgf/m}	With lube	No lube	temperature range °C	W12303-K
	Standard	-	Gray					_
		LFW	White					
	Low Friction/Anti-Wear	LFG	Green					0
Standard		LFB	Brown	29.4 {3000}	50	50	-20 to 80 (60)	A
chain	Ultra Low Friction	ULF	Blue	27.4 (3000)	30	30	-20 to 60 (60)	0
		UL	Green					
	Low Friction	NLF	Dark gray					A
		WR	Green					
	II . D /	KV150					-	
	Heat Resistant/ High Speed	KV180	Black	_	_	_		
	Tilgit opeca	KV250						-
	High Temperature	HTW	White					
	Chemical Resistant	Υ	Matte white					
High-function	Electroconductive	Е	Black	22.4 {2285}	50	50	-20 to 80 (60)	A
chain	Impact Resistant	DIA	Cream					
	impaci kesisiani	DIY	Green					
	Antibacterial/Mold Resistant	MWS	Cream	_	_	_	-	-
	Metal Detectable	MPD	Black		_			
	Metal Detectable	MPW	DICK					
	Middle Friction	MF	Yellow	21.8 {2224}		50	-20 to 80	A

-: Not available 🔺 : Special configurations may be available. Contact a Tsubaki representative for further information. Note: 1. \bigcirc : Made-to-order product

Chain (Plastic Pins)

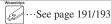
Chain width	ULF	LFG
X mm	Tsubaki model no.	Tsubaki model no.
76.2	WT2505-K03-ULF	WT2505-K03-LFG
152.4	WT2505-K06-ULF	WT2505-K06-LFG
228.6	WT2505-K09-ULF	WT2505-K09-LFG
304.8	WT2505-K12-ULF	WT2505-K12-LFG
381.0	WT2505-K15-ULF	WT2505-K15-LFG
457.2	WT2505-K18-ULF	WT2505-K18-LFG
533.4	WT2505-K21-ULF	WT2505-K21-LFG
609.6	WT2505-K24-ULF	WT2505-K24-LFG

Chain wiath	OLI	LIG		
X mm	Tsubaki model no.	Tsubaki model no.		
762.0	WT2505-K30-ULF	WT2505-K30-LFG		
914.4	WT2505-K36-ULF	WT2505-K36-LFG		
1219.2	WT2505-K48-ULF	WT2505-K48-LFG		
1524.0	WT2505-K60-ULF	WT2505-K60-LFG		
1828.8	WT2505-K72-ULF	WT2505-K72-LFG		
2438.4	WT2505-K96-ULF	WT2505-K96-LFG		
3048.0	WT2505-K120-ULF	WT2505-K120-LFG		

Note: 1. Custom chain widths and widths greater than 3,048mm are available upon request.

2. Chain width X shown is a nominal width. Actual width range is $^{+0}_{.0.7\%}$ at 20°C operating temperature. Chain width is subject to expansion or contraction with changes in temperature. Expansion/contraction rate is 0.00015/°C based on reference temperature of 20°C.

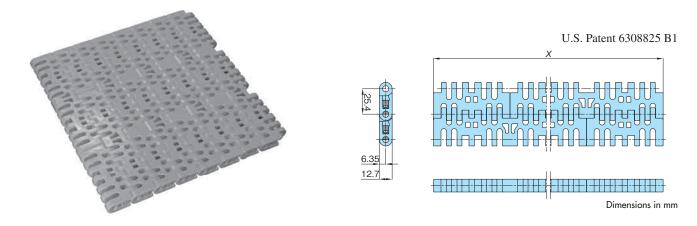






Operating temperature of (60) is for wet conditions.
 MR Medium Friction series must be used without lubrication (lube-free).

Plastic Modular Chain WT2506-K Open Type: Straight Running



Material mark	Chain pitch mm	Link color	Open area %	Max. allowable load kN/m {kgf/m}	Chain mass kg/m²	Operating temperature range °C	Pin material
HTW	25.4	White	16	26.2{2675}	8.1	5 to 105	Polypropylene

Note: 1. Values for max. allowable load are at ambient temperature (20°C) and assume that tension acts uniformly over the entire chain width. Values for max. allowable load in the table above are for chain that is one meter (1 m) in width. To calculate values for other chain widths, multiply the chain width in question by the max. allowable load for one-meter (1 m) wide chain.

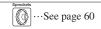
- Available only in HTW material.
 Made-to-order product.

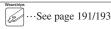
Chain (Plastic Pins)

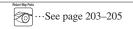
Chain width	HTW
X mm	Tsubaki model no.
228.6	WT2506-K09-HTW
304.8	WT2506-K12-HTW
381.0	WT2506-K15-HTW
457.2	WT2506-K18-HTW
609.6	WT2506-K24-HTW
762.0	WT2506-K30-HTW
914.4	WT2506-K36-HTW
1219.2	WT2506-K48-HTW
1295.4	WT2506-K51-HTW
1371.6	WT2506-K54-HTW
1447.8	WT2506-K57-HTW
1524.0	WT2506-K60-HTW
1600.2	WT2506-K63-HTW
1676.4	WT2506-K66-HTW
1752.6	WT2506-K69-HTW
1828.8	WT2506-K72-HTW

Chain width	HTW
X mm	Tsubaki model no.
1905.0	WT2506-K75-HTW
1981.2	WT2506-K78-HTW
2057.4	WT2506-K81-HTW
2133.6	WT2506-K84-HTW
2209.8	WT2506-K87-HTW
2286.0	WT2506-K90-HTW
2362.2	WT2506-K93-HTW
2438.4	WT2506-K96-HTW
2514.6	WT2506-K99-HTW
2590.8	WT2506-K102-HTW
2667.0	WT2506-K105-HTW
2743.2	WT2506-K108-HTW
2819.4	WT2506-K111-HTW
2895.6	WT2506-K114-HTW
2971.8	WT2506-K117-HTW
3048.0	WT2506-K120-HTW

Custom chain widths and widths greater than 3,048mm are available upon request.
 Chain width X shown is a nominal width. Actual width range is ⁶/₂₈ at 20°C operating temperature. Chain width is subject to expansion or contraction with changes in temperature. Expansion/contraction rate is 0.00015/°C based on reference temperature of 20°C.





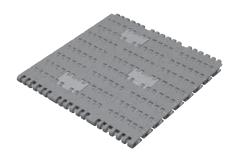


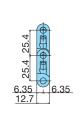
Plastic Modular Chain BTM8H

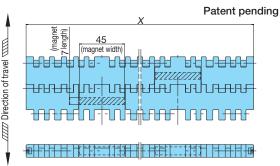
Magnetic Type: Straight Running

Features

- Magnets embedded in the links enable inclined conveyance by holding conveyed (magnetic) objects to the link surface.
- Because no flights are used, it prevents damage caused by friction between the conveyed goods and the



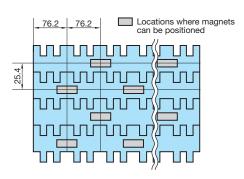




Dimensions in mm

Magnet Model Diagram

Locations where the magnets can be positioned can be selected as desired to match the application and conveyed objects. The diagram below shows locations where magnets can



Tsubaki model no.	Material mark	Link color	Chain width X	Open area %	Max.allowable load kN/m {kgf/m} *2	Chain mass kg/m² *3	Operating temperature range °C	Max.allowable speed m/min	Pin material
втм8Н	LFG	Green (magnet links: brown)	to 152.4	3	26.4{2700}	12.6	-20 to 80	50	Special engineering plastic

- Note: 1. Chain width can be composed of units ranging from 76.2mm to 152.4mm wide. However, using the 152.4mm chain width arrangement means that the spacing
 - between magnet links will be larger than when magnet links are placed every second link.

 2. Values for max. allowable load assume that tension acts uniformly over the entire chain width. Values for max. allowable load in the table above are for chain that

 - 3. Chain mass shown in the table above does not include the mass of the magnets. Add 0.02 kg for each magnet.

 4. BTM8H Magnetic Chain is intended for use only in dry environments. For inclined conveyance applications, the conveyor must be designed to accommodate usage conditions, such as the kind of objects to be conveyed and inclination angle. For such applications, be sure to contact a Tsubaki representative.
 - 5. Made-to-order product.

Model Numbering



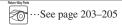
8:25.4mm M : Magnetic type

Note: Do not leave spaces between letters and symbols.

3048 = 304.8mm Note: Chain width is indicated as an integer including the first place after the decimal point.

TK: Indicates special design product (Magnet-mounting positions should be designed according to operational conditions.)





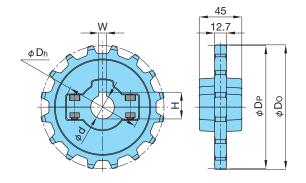
Sprockets for WT2500 Chain Engineering Plastic

Applicable chain

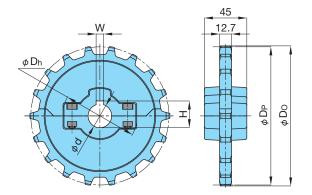
WT2505, WT2506, BTM8H, BTC8H-M, BTM8H-M

Split Sprockets

WT-SW2500-16T



WT-SW2500-18T



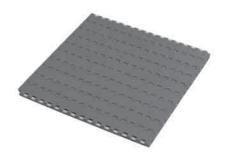
Tsubaki model no.	T4 -	Pitch	Pitch Outside diameter DP Do	Bore shape	Bore diameter d	Keyway		Hub Appro		Т	Material	
	Teeth					W	Н	Dh	mass kg	Туре	Body	Bolts and nuts
WT-SW2500-16T25					25	8	28.3			- Split	Reinforced	
WT-SW2500-16T30	16	130.2	131.9	Round	30	8	33.3	82	0.3			
WT-SW2500-16T35	10				35	10	38.3					
WT-SW2500-16T40	1				40	12	43.3					Stainless
WT-SW2500-18T25				148.3 Round	25	8	28.3			Spili	(black)	steel
WT-SW2500-18T30	18	146.3	1 40 2		30	8	33.3	82	0.3		(Didek)	
WT-SW2500-18T35	18	140.3	148.3		35	10	38.3	02				
WT-SW2500-18T40					40	12	43.3					

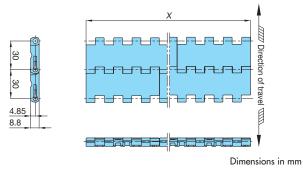
- Note: 1. Bolt tightening torque: 5.7 N·m
 2. When assembling the sprockets, do not mix the pairs.
 3. Bolts and nuts are made of stainless steel.

 - 4. Operating temperature range: -20°C to 80°C
 5. Machined solid sprockets (steel or engineering plastic) can also be fabricated upon request. Contact a Tsubaki representative for further information.

Plastic Modular Chain WT3005-K Closed Type: Straight Running

No tab guide attachments





Material mark	Chain pitch mm	Link color	Open area %	Max. allowable load kN/m {kgf/m}	Chain mass kg/m²	Operating temperature range °C	Pin material
ULF		Blue					
UL	30	Green	4	10.5 {1070}	6.3	-20 to 80 (60)	Special engineering
NLF		Dark gray					p.cone

Note: 1. Values for max. allowable load are at ambient temperature (20°C) and assume that tension acts uniformly over the entire chain width. Values for max. allowable load in the table above are for chain that is one meter (1 m) in width. To calculate values for other chain widths, multiply the chain width in question by the max. allowable load for one-meter (1m) wide chain.

2. Operating temperature of (60) is for wet conditions.

Material

	Material	Material	Link color	Max. allowable load	Max. allowable	e speed m/min	Operating	WT3005-K
	Maleriai	mark	LITIK COIOI	kN/m {kgf/m}	With lube	No lube	temperature range °C	VV13003-K
	Standard	-	Gray					
		LFW	White					
	Low Friction/Anti-Wear	LFG	Green					
Standard		LFB	Brown	10.5{1070}	50	50	-20 to 80 (60)	
chain	Ultra Low Friction	ULF	Blue					
	Low Friction	UL	Green					0
		NLF	Dark gray					
		WR	Green	-	_	-	-	-
	Heat Resistant/ High Speed	KV150		-				
		KV180	Black		-	-	-	
		KV250						-
	High Temperature	HTW	White					
	Chemical Resistant	Υ	Matte white					
High-function	Electroconductive	Е	Black	8.0{ 816}	50	50	-20 to 80 (60)	A
chain	Impact Resistant	DIA	Cream					
	impaci kesisiani	DIY	Green					
	Antibacterial/Mold Resistant	MWS	Cream	_		_	-	-
	Metal Detectable	MPD	Dlevels		_			
	Meiai Delectable	MPW	DICK	Black				
	Middle Friction	MF	Yellow	7.8{ 796}]	50	-20 to 80	A

▲ : Special configurations may be available. Contact a Tsubaki representative for further information. Note: 1. (): Made-to-order product - : Not available

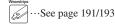
Chain (Plastic Pins)

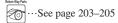
Chain width	ULF	UL	NLF		
X mm	Tsubaki model no.	Tsubaki model no.	Tsubaki model no.		
76.2	WT3005-K03-ULF	WT3005-K03-UL	WT3005-K03-NLF		
152.4	WT3005-K06-ULF	WT3005-K06-UL	WT3005-K06-NLF		
228.6	WT3005-K09-ULF	WT3005-K09-UL	WT3005-K09-NLF		
304.8	WT3005-K12-ULF	WT3005-K12-UL	WT3005-K12-NLF		
381.0	WT3005-K15-ULF	WT3005-K15-UL	WT3005-K15-NLF		
457.2	WT3005-K18-ULF	WT3005-K18-UL	WT3005-K18-NLF		
533.4	WT3005-K21-ULF	WT3005-K21-UL	WT3005-K21-NLF		

Chain width	ULF	UL	NLF
X mm	Tsubaki model no.	Tsubaki model no.	Tsubaki model no.
609.6	WT3005-K24-ULF	WT3005-K24-UL	WT3005-K24-NLF
762.0	WT3005-K30-ULF	WT3005-K30-UL	WT3005-K30-NLF
838.2	WT3005-K33-ULF	WT3005-K33-UL	WT3005-K33-NLF
914.4	WT3005-K36-ULF	WT3005-K36-UL	WT3005-K36-NLF
1066.8	WT3005-K42-ULF	WT3005-K42-UL	WT3005-K42-NLF
1219.2	WT3005-K48-ULF	WT3005-K48-UL	WT3005-K48-NLF
1524.0	WT3005-K60-ULF	WT3005-K60-UL	WT3005-K60-NLF

Note: 1. Custom chain widths and widths greater than 1,524mm are available upon request.
2. Chain width X shown is a nominal width. Actual width range is $\frac{\alpha}{0.78}$ at 20°C operating temperature. Chain width is subject to expansion or contraction with changes in temperature. Expansion/contraction rate is 0.00015/°C based on reference temperature of 20°C.



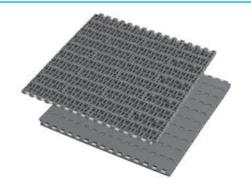


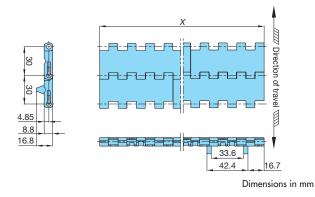


Operating temperature of (60) is for wet conditions.
 MF Medium Friction series must be used without lubrication (lube-free).

Plastic Modular Chain WT3005G-K Closed Type: Straight Running

With tab guide attachments





Material mark	Chain pitch mm	Link color	Open area %	Max. allowable load kN/m {kgf/m}	Chain mass kg/m²	Operating temperature range °C	Pin material
ULF		Blue					6 . 1
UL	30	Green	4	10.5 {1070}	6.3	-20 to 80 (60)	Special engineering plastic
NLF		Dark gray					piasiic

Note: 1. Values for max. allowable load are at ambient temperature (20°C) and assume that tension acts uniformly over the entire chain width. Values for max. allowable load in the table above are for chain that is one meter (1 m) in width. To calculate values for other chain widths, multiply the chain width in question by the max. allowable load for one-meter (1m) wide chain.

2. Operating temperature of (60) is for wet conditions.

Material

	Material	Material	Link color	Max. allowable load		e speed m/min	Operating	WT3005G-K
		mark		kN/m {kgf/m}	With lube	No lube	temperature range °C	
	Standard	_	Gray					
		LFW	White					•
	Low Friction/Anti-Wear	LFG	Green					
Standard		LFB	Brown	10.5{1070}	50	50	-20 to 80 (60)	
chain	Ultra Low Friction	ULF	Blue					
	Low Friction	UL	Green					0
		NLF	Dark gray					
		WR	Green	-	-	-	-	-
	Heat Resistant/ High Speed	KV150						
		KV180	Black		_	_	-	
		KV250	1	_				-
	High Temperature	HTW	White					
	Chemical Resistant	Υ	Matte white					
High-function	Electroconductive	E	Black	8.0{ 816}	50	50	-20 to 80 (60)	A
chain		DIA	Cream					
	Impact Resistant	DIY	Green					
	Antibacterial/Mold Resistant	MWS	Cream	_		_	_	-
	M . ID III	MPD	DI I		_			
	Metal Detectable	MPW	- Black					
	Middle Friction	MF	Yellow	7.8{ 796}		50	-20 to 80	A

▲ : Special configurations may be available. Contact a Tsubaki representative for further information. 1. : Made-to-order product - : Not available

Chain (Plastic Pins)

Chain width	ULF	UL	NLF
X mm	Tsubaki model no.	Tsubaki model no.	Tsubaki model no.
152.4	WT3005G-K06-ULF	WT3005G-K06-UL	WT3005G-K06-NLF
228.6	WT3005G-K09-ULF	WT3005G-K09-UL	WT3005G-K09-NLF
304.8	WT3005G-K12-ULF	WT3005G-K12-UL	WT3005G-K12-NLF
381.0	WT3005G-K15-ULF	WT3005G-K15-UL	WT3005G-K15-NLF
457.2	WT3005G-K18-ULF	WT3005G-K18-UL	WT3005G-K18-NLF
533.4	WT3005G-K21-ULF	WT3005G-K21-UL	WT3005G-K21-NLF
609.6	WT3005G-K24-ULF	WT3005G-K24-UL	WT3005G-K24-NLF

Chain width	ULF	UL	NLF
X mm	Tsubaki model no.	Tsubaki model no.	Tsubaki model no.
838.2	WT3005G-K33-ULF	WT3005G-K33-UL	WT3005G-K33-NLF
914.4	WT3005G-K36-ULF	WT3005G-K36-UL	WT3005G-K36-NLF
1143.0	WT3005G-K45-ULF	WT3005G-K45-UL	WT3005G-K45-NLF
1219.2	WT3005G-K48-ULF	WT3005G-K48-UL	WT3005G-K48-NLF
1295.4	WT3005G-K51-ULF	WT3005G-K51-UL	WT3005G-K51-NLF
1371.6	WT3005G-K54-ULF	WT3005G-K54-UL	WT3005G-K54-NLF
1524.0	WT3005G-K60-ULF	WT3005G-K60-UL	WT3005G-K60-NLF

Note: 1. Custom chain widths and widths greater than 1,524mm are available upon request.

2. Chain width X shown is a nominal width. Actual width range is 🐲 at 20°C operating temperature. Chain width is subject to expansion or contraction with changes in temperature. Expansion/contraction rate is 0.00015/°C based on reference temperature of 20°C.

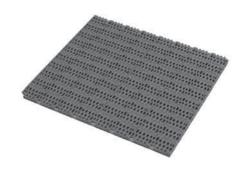


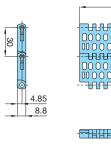


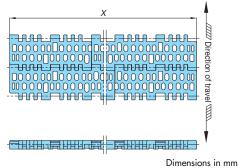
Operating temperature of (60) is for wet conditions.
 MF Medium Friction series must be used without lubrication (lube-free).

Plastic Modular Chain WT3086-K Open Type: Straight Running

No tab guide attachments







Max. allowable load kN/m {kgf/m} Chain mass kg/m² Material Chain pitch Operating Link color Pin material temperature range °C mark Blue 10.5 {1070} Polypropylene Green -20 to 80 (60) Dark gray

Note: 1. Values for max. allowable load are at ambient temperature (20°C) and assume that tension acts uniformly over the entire chain width. Values for max. allowable load in the table above are for chain that is one meter (1 m) in width. To calculate values for other chain widths, multiply the chain width in question by the max. allowable load for one-meter (1 m) wide chain.

Material

	Martarial	Material Material Link color		Max. allowable load	Max. allowable speed m/min		Operating	WT3086-K
	Maieriai			kN/m {kgf/m}		No lube	temperature range °C	VV 13000-K
	Standard	-	Gray					
		LFW	White					_
	Low Friction/Anti-Wear	LFG	Green					_
Standard		LFB	Brown	10.5{1070}	50	50	-20 to 80 (60)	
chain	Ultra Low Friction	ULF	Blue					
		UL	Green					0
	Low Friction	NLF	Dark gray					
		WR	Green	-	-	-	-	-
		KV150				_	-	
	Heat Resistant/ High Speed	KV180	Black		_			
		KV250		_				_
	High Temperature	HTW	White					
	Chemical Resistant	Υ	Matte white					
High-function	Electroconductive	Е	Black	8.0{ 816}	50	50	-20 to 80 (60)	A
chain	Impact Resistant	DIA	Cream					
	impaci kesisiani	DIY	Green					
	Antibacterial/Mold Resistant	MWS	Cream	_		_	-	_
	Metal Detectable	MPD	Black		_			
	Metal Detectable	MPW	DICK					
	Middle Friction	MF	Yellow	7.8{ 796}	1	50	-20 to 80	A

▲ : Special configurations may be available. Contact a Tsubaki representative for further information. Note: 1. (): Made-to-order product - : Not available

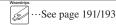
Chain (Plastic Pins)

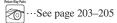
Chain width	ULF	UL	NLF
X mm	Tsubaki model no.	Tsubaki model no.	Tsubaki model no.
170	WT3086-K170-ULF	WT3086-K170-UL	WT3086-K170-NLF
255	WT3086-K255-ULF	WT3086-K255-UL	WT3086-K255-NLF
340	WT3086-K340-ULF	WT3086-K340-UL	WT3086-K340-NLF
425	WT3086-K425-ULF	WT3086-K425-UL	WT3086-K425-NLF
510	WT3086-K510-ULF	WT3086-K510-UL	WT3086-K510-NLF
595	WT3086-K595-ULF	WT3086-K595-UL	WT3086-K595-NLF
680	WT3086-K680-ULF	WT3086-K680-UL	WT3086-K680-NLF

Chain width	ULF	UL	NLF
X mm	Tsubaki model no.	Tsubaki model no.	Tsubaki model no.
765	WT3086-K765-ULF	WT3086-K765-UL	WT3086-K765-NLF
850	WT3086-K850-ULF	WT3086-K850-UL	WT3086-K850-NLF
935	WT3086-K935-ULF	WT3086-K935-UL	WT3086-K935-NLF
1020	WT3086-K1020-ULF	WT3086-K1020-UL	WT3086-K1020-NLF
1190	WT3086-K1190-ULF	WT3086-K1190-UL	WT3086-K1190-NLF
1360	WT3086-K1360-ULF	WT3086-K1360-UL	WT3086-K1360-NLF
1530	WT3086-K1530-ULF	WT3086-K1530-UL	WT3086-K1530-NLF

Note: 1. Custom chain widths and widths greater than 1,530mm are available upon request.







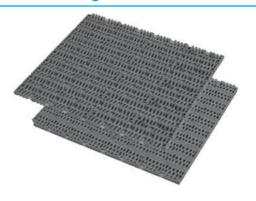
^{2.} Operating temperature of (60) is for wet conditions.

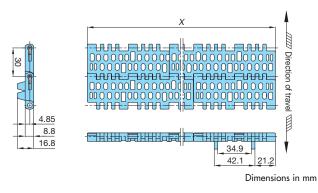
Operating temperature of (60) is for wet conditions.
 MF Medium Friction series must be used without lubrication (lube-free).

^{2.} Chain width X shown is a nominal width. Actual width range is 🖏 at 20°C operating temperature. Chain width is subject to expansion or contraction with changes in temperature. Expansion/contraction rate is 0.00015/°C based on reference temperature of 20°C.

Plastic Modular Chain WT3086G-K Open Type: Straight Running

With tab guide attachments





Material mark	Chain pitch mm	Link color	Open area %	Max. allowable load kN/m {kgf/m}	Chain mass kg/m²	Operating temperature range °C	Pin material
ULF		Blue					
UL	30	Green	27	10.5 {1070}	6.0	-20 to 80 (60)	Polypropylene
NLF		Dark gray					

Note: 1. Values for max. allowable load are at ambient temperature (20°C) and assume that tension acts uniformly over the entire chain width. Values for max. allowable load in the table above are for chain that is one meter (1m) in width. To calculate values for other chain widths, multiply the chain width in question by the max. allowable load for one-meter (1m) wide chain.

2. Operating temperature of (60) is for wet conditions.

Material

	Material Material Link col		Link color	Max. allowable load		le speed m/min Operating		WT3086G-K
	Malerial	mark	Ellik Color	kN/m {kgf/m}	With lube	No lube	temperature range °C	77100000 K
	Standard	_	Gray					
		LFW	White					
	Low Friction/Anti-Wear	LFG	Green					
Standard		LFB	Brown	10.5 {1070}	50	50	-20 to 80 (60)	
chain	Ultra Low Friction	ULF	Blue					
		UL	Green					0
	Low Friction	NLF	Dark gray					
		WR	Green	-	-	-	-	-
	Heat Resistant/ High Speed	KV150				_	-	
		KV180	Black		_			
		KV250		_				-
	High Temperature	HTW	White					
	Chemical Resistant	Υ	Matte white					
High-function	Electroconductive	Е	Black	8.0{ 816}	50	50	-20 to 80 (60)	A
chain	Income the Contract	DIA	Cream					
	Impact Resistant	DIY	Green					
	Antibacterial/Mold Resistant	MWS	Cream	_		_	_	_
	Metal Detectable	MPD	Black		_			
	Metal Detectable	MPW	PICK					
	Middle Friction	MF	Yellow	7.8{ 796}		50	-20 to 80	A

▲ : Special configurations may be available. Contact a Tsubaki representative for further information. 1. : Made-to-order product - : Not available

Chain (Plastic Pins)

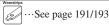
Chain width	ULF	UL	NLF
X mm	Tsubaki model no.	Tsubaki model no.	Tsubaki model no.
1 <i>7</i> 0	WT3086G-K170-ULF	WT3086G-K170-UL	WT3086G-K170-NLF
255	WT3086G-K255-ULF	WT3086G-K255-UL	WT3086G-K255-NLF
340	WT3086G-K340-ULF	WT3086G-K340-UL	WT3086G-K340-NLF
425	WT3086G-K425-ULF	WT3086G-K425-UL	WT3086G-K425-NLF
510	WT3086G-K510-ULF	WT3086G-K510-UL	WT3086G-K510-NLF
595	WT3086G-K595-ULF	WT3086G-K595-UL	WT3086G-K595-NLF
680	WT3086G-K680-ULF	WT3086G-K680-UL	WT3086G-K680-NLF

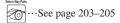
Chain width	ULF	UL	NLF
X mm	Tsubaki model no.	Tsubaki model no.	Tsubaki model no.
765	WT3086G-K765-ULF	WT3086G-K765-UL	WT3086G-K765-NLF
850	WT3086G-K850-ULF	WT3086G-K850-UL	WT3086G-K850-NLF
935	WT3086G-K935-ULF	WT3086G-K935-UL	WT3086G-K935-NLF
1020	WT3086G-K1020-ULF	WT3086G-K1020-UL	WT3086G-K1020-NLF
1190	WT3086G-K1190-ULF	WT3086G-K1190-UL	WT3086G-K1190-NLF
1360	WT3086G-K1360-ULF	WT3086G-K1360-UL	WT3086G-K1360-NLF
1530	WT3086G-K1530-ULF	WT3086G-K1530-UL	WT3086G-K1530-NLF

Note: 1. Custom chain widths and widths greater than 1,530mm are available upon request.

2. Chain width X shown is a nominal width. Actual width range is 🐲 at 20°C operating temperature. Chain width is subject to expansion or contraction with changes in temperature. Expansion/contraction rate is 0.00015/°C based on reference temperature of 20°C.



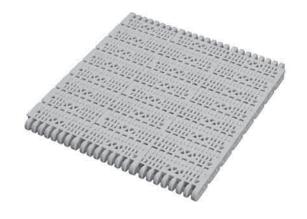


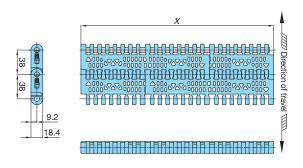


Operating temperature of (60) is for wet conditions.
 MF Medium Friction series must be used without lubrication (lube-free).

Plastic Modular Chain WT3816-K Open Type: Straight Running

U.S. Patent 6308825 B1





Material mark	Chain pitch mm	Link color	Open area %	Max. allowable load kN/m {kgf/m}	Chain mass kg/m²	Operating temperature range °C	Pin material
HTW	38	White	28	30{3058}	9.8	5 to 105	Polypropylene

Note: 1. Values for max. allowable load are at ambient temperature (20°C) and assume that tension acts uniformly over the entire chain width. Values for max. allowable load in the table above are for chain that is one meter (1m) in width. To calculate values for other chain widths, multiply the chain width in question by the max. allowable load for one-meter (1m) wide chain.
2. Available only in HTW material.
3. Made-to-order product.

Chain (Plastic Pins)

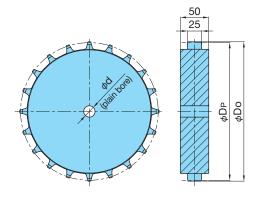
Chain width X mm	HTW Tsubaki model no.
200	WT3816-K200-HTW
300	WT3816-K300-HTW
400	WT3816-K400-HTW
500	WT3816-K500-HTW
600	WT3816-K600-HTW
700	WT3816-K700-HTW
800	WT3816-K800-HTW

Chain width	HTW
X mm	Tsubaki model no.
900	WT3816-K900-HTW
1000	WT3816-K1000-HTW
1500	WT3816-K1500-HTW
2000	WT3816-K2000-HTW
2500	WT3816-K2500-HTW
3000	WT3816-K3000-HTW
3500	WT3816-K3500-HTW

Note: 1. Custom chain widths and widths greater than 3,500mm are available upon request.

2. Chain width X shown is a nominal width. Actual width range is 🚜 at 20°C operating temperature. Chain width is subject to expansion or contraction with changes in temperature. Expansion/contraction rate is 0.00015/°C based on reference temperature of 20°C.

S3816 Solid Sprockets



Tsubaki model no.	Teeth	Pitch diameter DP	Outside diameter DO	Approx. mass kg	Bore shape	Bore diameter d	Туре	Material
WT-S3816-18	18	218.8	221.6	1.5	Bore shape and size are made-to-order.			
WT-S3816-20	20	242.9	245.9	1.8			Solid	UHMW-PE (green)
WT-S3816-24	24	291.1	294.3	2.8				(groon)

Note: Sprockets can also be manufactured with other shapes and number of teeth than noted above.

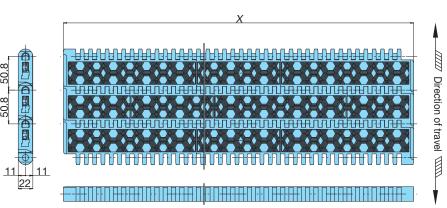
Plastic Modular Chain BTH16

High-Strength Type: Straight Running

Features

- High-rigidity chain provides the highest maximum allowable load for Plastic Modular Chain (62 kN/m).
 Suitable for conveying bulk quantities or heavy objects.
- A special relief pattern embossed on the top surface of the chain provides an anti-slip effect. Its design
 acts to minimize slippage and works to prevent objects from becoming snagged on the chain surface. Ideal
 for man conveyors such as moving walkways.
- Slide lock pin retention system allows easy installation and maintenance.





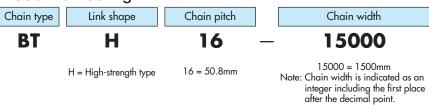
Dimensions in mm

	baki lel no.	Chain pitch mm	Chain width <i>X</i>	Link color	Max.allowable load kN/m {kgf/m}	Approx. mass kg/m ²	Operating temperature range	Pin material
BTI	H16	50.8	400mm (min. width); chain width can be expanded in units of 100mm	Blue	62{6330}	21.70	-20°C to 80°C	Special engineering plastic

Note: 1. When considering the use of this chain, contact a Tsubaki representative to review usage conditions (nature of the application, objects to be conveyed, conveyor length, type of environment, speed, operating temperature, etc.).

2. Values for max. allowable load assume that tension acts uniformly over the entire chain width. Values for max. allowable load in the table above are for chain that is one meter (1m) in width. To calculate values for other chain widths, multiply the chain width in question by the max. allowable load for one-meter (1m) wide chain.

Model Numbering



Note: Do not leave spaces between letters and symbols.

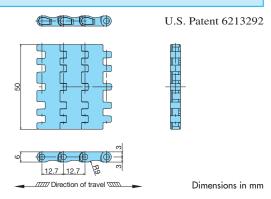
Plastic Modular Chain BTC4-M

Closed Type: Straight Running

Features

- Small chain pitch of 12.7mm is ideal for conveying small, lightweight containers.
- Underside of links is curved, allowing the chain to wrap around an 18mm diameter shaft and effectively reducing the dead space between conveyors.
- Unique multi-hinge link construction ensures smooth accumulation and smooth transition between conveyors.
- Antistatic properties are added to standard link material to make this chain effective in countering the static electricity that often accumulates on mini-bottles and small containers under dry conditions.
- All-plastic construction means the chain is lightweight and easy to handle, and eliminates the need to sort and separate for waste disposal. The chain can also be used in application that use metal detectors.





Material

	Material	Material mark	Link color	Max. allowable load kN {kgf}	Max. allowable With lube	e speed m/min No lube	Operating temperature range °C	BTC4-M
	Standard	-	Gray					
		LFW	White		50			
	Low Friction/Anti-Wear	LFG	Green	0.49 {50}		50	-20 to 80 (60)	0
Standard		LFB	Brown					
chain	Ultra Low Friction	ULF	Blue					
	Low Friction	WR	Green			_		
		UL	Green	-	-		-	-
		NLF	Dark gray					
	Heat Resistant/ High Speed	KV150						
		KV180	Black					
		KV250]	-			-	-
	High Temperature	HTW	White		_	_		
	Low Temperature	LTW	vvniie					
High-function	Chemical Resistant	Υ	Matte white					A
chain	Electroconductive	Е	Black	0.34 {35}	50	50	-20 to 80 (60)	0
	Impact Resistant	DIA	Cream					
	impaci kesisiani	DIY	Green	-	_	_	_	_
	Antibacterial/Mold Resistant	MWS	Cream	0.49 {50}	50	50	-20 to 80 (60)	0
	Metal Detectable	MPD	Black					
	Meiai Defectable	MPW	DICK	_	_	_	_	_

Note: 1. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer.

: Not available lacktriangle : Special configurations may be available. Contact a Tsubaki representative for further information. : Made-to-order product

Chain (Plastic Pins)

Material	Standard chain								
Malerial	Standard	Ultra Low Friction	Approx. mass kg/m						
Material mark	-	LFW LFG		LFB	ULF	iliuss kg/ili			
Tsubaki model no.	BTC4-500-M	BTC4-500-M-LFW	BTC4-500-M-LFG	BTC4-500-M-LFB	BTC4-500-M-ULF	0.25			

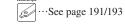
Note: 1. For use with special plastic pins.
2. The connecting pin is colored orange so as to distinguish it from base-chain pins (colored white).

Model Numbering



4 = 12.7 mm500 = 50.0mm

Note: Do not leave spaces between letters and symbols.





^{3.} Operating temperature of (60) is for wet conditions.

Engineering Plastic

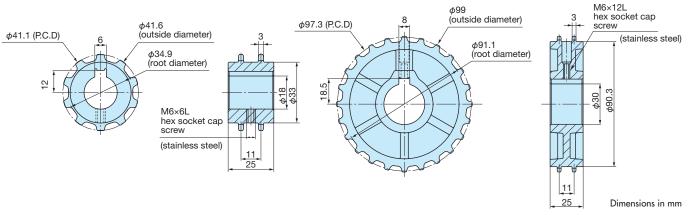
Sprockets for BTC4-M Chain

Applicable chain

BTC4-M

● BTC4-10T18





Tsubaki model no.	Teeth	Bore diameter	Mass g	Material (color)	Туре
BTC4-10T18	10	φ18	25	Reinforced polyamide	Solid
BTC4-24T30	24	φ30	110	(light gray)	Joild

Note: 1. Operating temperature range: -20°C to 80°C

- 2. BTC4-10T17 (17mm dia. bore) sprocket can also be manufactured.
- 3. Made-to-order product.

Model Numbering

Chain type

Teeth

Bore diameter

BTC4 —

- 10T

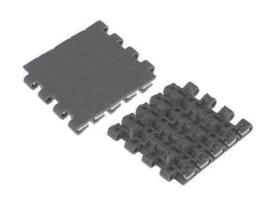
18

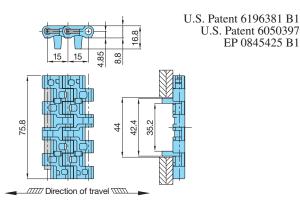
Note: Do not leave spaces between letters and symbols.

Plastic Modular Chain WT1505G-M Closed Type: Straight Running

Features

- Small chain pitch of 15mm is ideal for conveying small, lightweight containers.
- Tab guide attachments make this chain ideal for layouts with lateral transitions between conveyors.
- All-plastic construction. Lightweight and easy to handle.





Dimensions in mm

Material

	Material	Material	Link color	Max. allowable load	Max. allowable	e speed m/min	Operating	VA/T1 505C 14200
	Material	mark	Link color	kN {kgf}	With lube	No lube	temperature range °C	WT1505G-M300
	Standard	-	Gray					
		LFW	White					_
	Low Friction/Anti-Wear	LFG	Green		120	50	-20 to 80 (60)	
Standard		LFB	Brown	0.8 {81 }				
chain	Ultra Low Friction	ULF	Blue	0.0 (01)				
		UL	Green					0
	Low Friction	NLF	Dark gray					
		WR	Green					A
	II . D /	KV150						
	Heat Resistant/ High Speed	KV180	Black		_	_	_	
	riigii Speed	KV250		_				_
	Chemical Resistant	Υ	Matte white					
re L.fe	Electroconductive	Е	Black	0.6 {61.2}	120	50	-20 to 80 (60)	A
High-function chain	Impact Resistant	DIA	Cream					
Chain	impaci kesisiani	DIY	Green					
	Antibacterial/Mold Resistant	MWS	Cream	_		_	_	_
	Metal Detectable	MPD	Black		_			
	Meiai Delectable	MPW	DICK					
	Middle Friction	MF	Yellow	0.59 {60.2}		50	-20 to 80	A

Note: 1. 🔾 : Made-to-order product — : Not available — & : Special configurations may be available. Contact a Tsubaki representative for further information.

Chain (Plastic Pins)

Material Material mark	Ultra Low Friction Low Friction ULF UL		Low Friction NLF	Open area %	Approx. mass kg/m	Pin material
Tsubaki model no.	WT1505G-M300-ULF	WT1505G-M300-UL	WT1505G-M300-NLF	2	0.6	Special engineering plastic

1. Nose bars (sliding types, integrated-bearing types) cannot be used. 2. BT5-24T/BT5-32T sprockets for BT5 chain cannot be used.

Model Numbering



Note: Do not leave spaces between letters and symbols.



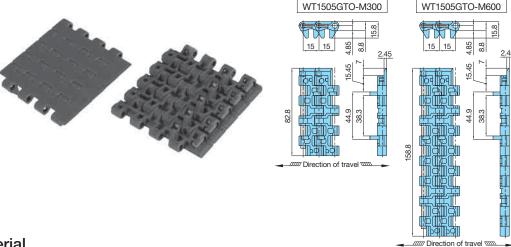
^{2.} Operating temperature of (60) is for wet conditions.

^{3.} MF Medium Friction series must be used without lubrication (lube-free).

Plastic Modular Chain WT1505GTO-M Closed Type: For Right-Angle Transfers

Features

- Small chain pitch of 15mm is ideal for conveying small, lightweight containers.
- Extended plate edges facilitate smoother right-angle transfers.
- All-plastic construction. Lightweight and easy to handle.



U.S. Patent 6196381 B1 U.S. Patent 6708818 B2 U.S. Patent 6050397 EP 0845425 B1 EP 1422171 B1

Material Dimensions in mm

Materiai								Direc	non or naver unit	Dillie	ensions in mini
	Material	Material mark	Link color	Max. allo kN	wable l {kgf}	load	ad Max. allowable speed m/min		Operating temperature range °C	WT1505GTO -M300	WT1505GTO -M600
		mark		M300	M	600	With lube	No lube	icinperatore range e	741000	741000
	Standard	-	Gray								
	Low Friction/Anti-Wear	LFW	White								
		LFG	Green						_	_	
Standard		LFB	Brown	0.8 {81 }	1 4	1.6 {162.2}	120 (50)	50 (30)	-20 to 80 (60)		
chain	Ultra Low Friction	ULF	Blue	0.0 (01)	1.0				-20 10 60 (60)		
		UL	Green								
	Low Friction	NLF	Dark gray								
		WR	Green							A	A
		KV150									
	Heat Resistant/ High Speed	KV180	Black			-	-	_	-		
	riigii speed	KV250		_						_	_
	Chemical Resistant	Y	Matte white								
in L.C. e	Electroconductive	Е	Black	0.6 {61.2}	1.2	{122.4}	120 (50)	50 (30)	-20 to 80 (60)	A	A
High-function chain	I ID : I	DIA	Cream								
Citain	Impact Resistant	DIY	Green								
	Antibacterial/Mold Resistant	MWS	Cream	_		-		_	-	_	_
-	M. ID. III	MPD	nl l				_				
	Metal Detectable	MPW	Black								
	Middle Friction	MF	Yellow	0.59 {60.2}	1.18	{120.4}		50 (30)	-20 to 80	A .	A

Note: 1. \bigcirc : Made-to-order product

1. : Made-to-order product —: Not available —: Special configurations may be available. Contact a Tsubaki representative for further information.

2. Maximum allowable speeds in () are for when using nose bars made of UHMW-PE. Nose bars made of SJ-CNO (special polyamide) must be used under dry conditions with no lubrication

Chain (Plastic Pins)

Material	Ultra Low Friction	Low Friction	Low Friction	Open area	Approx. mass	Pin material
Material mark	ULF	UL	NLF	. %	kg/m	rin maieriai
Tsubaki model no.	WT1505GTO-M300-ULF	WT1505GTO-M300-UL	WT1505GTO-M300-NLF	2	0.6	Special engineering
isubaki model no.	WT1505GTO-M600-ULF	WT1505GTO-M600-UL	WT1505GTO-M600-NLF		1.2	plastic

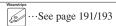
Note: BT5-24T/BT5-32T sprockets for BT5 chain cannot be used.

Model Numbering

Chain type Chain pitch Chain type Tab guide attachments Chain type Fixed width Plate width Chain material 15 05 G TO M 300 300 = 82.8mm

Note: Do not leave spaces between letters and symbols.





^{3.} Operating temperature of (60) is for wet conditions.

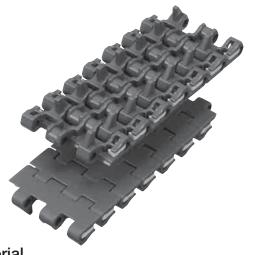
4. MF Medium Friction series must be used without lubrication (lube-free).

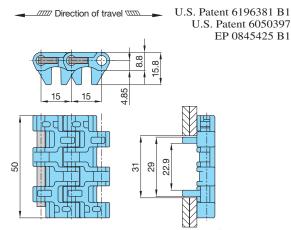
Plastic Modular Chain WT1515G-M

Closed Type: Straight Running

Features

- Small chain pitch of 15mm is ideal for conveying small, lightweight containers.
- Tab guide attachments make this chain ideal for layouts with lateral transitions between conveyors.
- All-plastic construction. Lightweight and easy to handle.





Material

Dimensions in mm

	Material	Material	Link color	Max. allowable load	Max. allowable	e speed m/min	Operating	WT1515G-M50
	Malerial	mark	LITIK COIOI	kN {kgf}	With lube	No lube	temperature range °C	W11313G-W30
	Standard	-	Gray					
		LFW	White					•
	Low Friction/Anti-Wear	LFG	Green				-20 to 80 (60)	_
Standard		LFB	Brown	0.53 {54 }	120 (50)	50 (30)		
chain	Ultra Low Friction	ULF	Blue	0.55 (54)	120 (30)	30 (30)		
		UL	Green					0
	Low Friction	NLF	Dark gray					
		WR	Green					A
	II ID 'I I/	KV150						
	Heat Resistant/ High Speed	KV180	Black					
		KV250		-	_	_	_	_
	Chemical Resistant	Υ	Matte white					
re L C. e	Electroconductive	E	Black	0.4 {40.8}	120 (50)	50 (30)	-20 to 80 (60)	A
High-function chain	Impact Resistant	DIA	Cream					
chain	impaci kesisiani	DIY	Green					
	Antibacterial/Mold Resistant	MWS	Cream	-		_	-	-
	Metal Detectable	MPD	Black		_			
	Metal Detectable	MPW	DIUCK					
	Middle Friction	MF	Yellow	0.4 {40.8}		50 (30)	-20 to 80	A

Note: 1. 🔾 : Made-to-order product 👚 : Not available 🕒 : Special configurations may be available. Contact a Tsubaki representative for further information.

- 2. Maximum allowable speeds in () are for when using nose bars made of UHMW-PE. Nose bars made of SJ-CNO (special polyamide) must be used under dry conditions with no lubrication.
- 3. Operating temperature of (60) is for wet conditions.
- 4. MF Medium Friction series must be used without lubrication (lube-free).

Chain (Plastic Pins)

Material	Ultra Low Friction	Low Friction	Low Friction	Open area	Approx. mass	Pin material
Material mark	ULF	UL	NLF	%	kg/m	rin maleriai
Tsubaki model no.	WT1515G-M50-ULF	WT1515G-M50-UL	WT1515G-M50-NLF	2	0.4	Special engineering plastic

Note: 1. Integrated-bearing type nose bars cannot be used. 2. BT5-24T/BT5-32T sprockets for BT5 chain cannot be used.



Chain type 15

Chain type Chain pitch

15

Tab guide attachments G

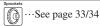
Fixed width

Plate width **50**

Chain material ULF

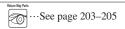
50_{mm}

Note: Do not leave spaces between letters and symbols.









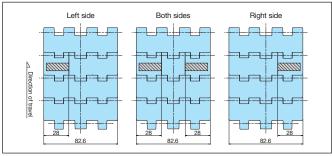
Plastic Modular Chain BTC8H-M & BTM8H-M Closed and Magnetic Types: Straight Running

Features

- Ideal for conveying trays using multiple chain strands running side-by-side.
- Lineup includes BTC8H-M Closed Type suitable for the flat sections of the conveyor, and BTM8H-M Magnetic Type suitable for inclined sections.
- Magnetic Type enables inclined conveyance of metal trays through magnets embedded in the links.

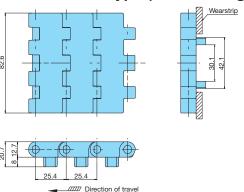


Magnet Configuration Examples

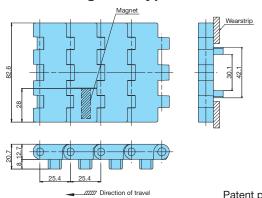


Magnets can be incorporated into BTM8H-M Magnetic Chain on either the left side or the right side with respect to the direction of travel, or on both sides, and with any spacing desired. Specify the placement and spacing of the magnets when ordering.

BTC8H-M Closed Type (without magnets)



BTM8H-M Magnetic Type



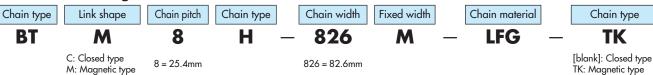
Patent pending

Tsubaki model no.	Material mark	Link color	Max. allowable load kN{kgf}	Chain mass kg/m	Operating temperature range °C	Max. allowable speed m/min	Pin material
BTC8H-826-M	Standard	Blue	1.47 {150}	1.2	-20 to 80 (60)	50	Special engineering
BTM8H-826-M	Sidildara	biue	1.47 (130)	1.2*1	-20 10 60 (60)	30	plastic

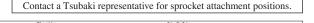
1. Chain mass for BTM8H-M does not include the mass of the magnets. Add 0.015 kg for each magnet.

- Values for max. allowable load, chain mass, operating temperature range, and allowable speed shown in the table above are for the Standard series.
- 3. Operating temperature of (60) is for wet conditions.
- 4. For use with special plastic pins. The connecting pin is colored orange so as to distinguish it from base-chain pins (colored white).
- 5. BTM8-M Magnetic Chain is designed to be used only under dry conditions, and cannot be used in environments where the chain will be exposed to water or steam. Also, magnets are sensitive to heat. Avoid storage or use in environments where temperatures exceed 80°C.
- 6. Made-to-order product. Chain links can also be manufactured from impact-resistant material to resist chipping, heat-resistant material suitable for conveying hightemperature trays, or low-friction/anti-wear material to minimize generation of wear dust. Contact a Tsubaki representative for further information.

Model Numbering



Note: Do not leave spaces between letters and symbols.



···See page 191/193

···See page 203–205

···See page 60

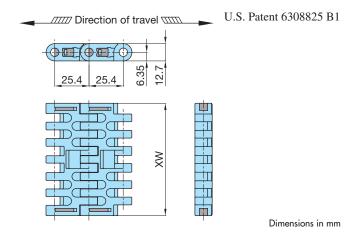
Plastic Modular Chain WT2505-M

Closed Type: Straight Running

Features

- Chain pitch of 25.4mm is ideal for conveying medium-sized containers.
- All-plastic construction. Lightweight and easy to handle.





Material

Max. allowable load kN {kgf} Max. allowable speed Material Operating temperature range °C WT2505 WT2505 m/min Link color Material -M450 mark M325 M450 With lube No lube Standard Gray LFW White Low Friction/Anti-Wear IFG Green LFB Brown Standard 3.0 {306} 4.5 {459} 120 50 -20 to 80 (60) chain Ultra Low Friction ULF Blue UL Green Low Friction NLF Dark gray WR Green KV150 Heat Resistant/ KV180 Black High Speed KV250 Matte white Chemical Resistant 2.2 {224} 3.4 {347} 120 50 -20 to 80 (60) Electroconductive Black High-function DIA Cream Impact Resistant DIY Green Antibacterial/Mold Resistant MWS Cream MPD Metal Detectable MPW

Note: 1. (): Made-to-order product —: Not available . Special configurations may be available. Contact a Tsubaki representative for further information.

3.3 {337}

2.2 {224}

Middle Friction

MF

Yellow

Chain (Plastic Pins)

	Material Material mark	Ultra Low Friction ULF			Plate width XW mm	Approx. mass kg/m	Pin material
Ī	Tsubaki model no.	WT2505-M325-ULF	WT2505-M325-LFG	2	82.6	1.0	Polypropylene
	isubaki model no.	WT2505-M450-ULF	WT2505-M450-LFG] 3	114.3	1.4	rolypropylerie

Model Numbering

Chain type Chain pitch Chain type Fixed width Plate width Chain material

WT 25 05 — M 450 — ULF

325 = 82.6mm 450 = 114.3mm

Note: Do not leave spaces between letters and symbols.

Contact a Tsubaki representative for sprocket attachment positions.

-20 to 80



^{2.} Operating temperature of (60) is for wet conditions.

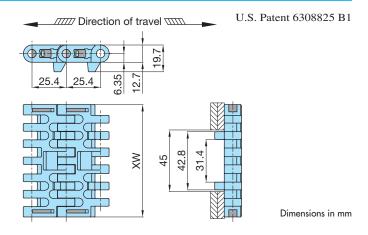
^{3.} MF Medium Friction series must be used without lubrication (lube-free).

Plastic Modular Chain WT2505G-M Closed Type: Straight Running

Features

- Chain pitch of 25.4mm is ideal for conveying medium-sized containers.
- Tab guide attachments make this chain ideal for layouts with lateral transitions between conveyors.
- All-plastic construction. Lightweight and easy to handle.





Material

	Material	Material mark	Link color	Max. allov kN	vable load [kgf}	Max. allow	able speed	Operating temperature range °C	WT2505G -M325	WT2505G -M450
		mark		M300	M450	With lube	No lube	Temperatore range C	141020	141450
	Standard	-	Gray						•	
		LFW	White							
Standard chain	Low Friction/Anti-Wear	LFG	Green		4.5 {459}	120	50	-20 to 80 (60)	0	0
		LFB	Brown	3.0 {306}					A	A
	Ultra Low Friction	ULF	Blue	3.0 (300)					0	0
		UL	Green							
	Low Friction	NLF	Dark gray						A	A
		WR	Green							
		KV150								
	Heat Resistant/	KV180	Black		-			-		
	High Speed	KV250]	_		_	_		_	_
	Chemical Resistant	Υ	Matte white							
	Electroconductive	Е	Black	2.2 {224}	3.4 {347}	120	50	-20 to 80 (60)	A	A
High-function chain	I ID : I	DIA	Cream							
Citalii	Impact Resistant	DIY	Green							
	Antibacterial/Mold Resistant	MWS	Cream	_	_		_	_	_	_
	Metal Detectable	MPD	DI I			_				
	Merai Derectable	MPW	- Black							
	Middle Friction	MF	Yellow	2.2 {224}	3.3 {337}		50	-20 to 80	A	A

- : Not available ▲ : Special configurations may be available. Contact a Tsubaki representative for further information.

Note: Do not leave spaces between letters and symbols.

Chain (Plastic Pins)

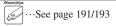
Material	Ultra Low Friction	Low Friction/Anti-Wear	Open area	Plate width	Approx. mass	Pin material
Material mark	ULF	LFG	%	XW mm	kg/m	rinimaleriai
Tsubaki model no.	WT2505G-M325-ULF	WT2505G-M325-LFG	2	82.6	1.1	Polypropylene
isubaki model no.	WT2505G-M450-ULF	WT2505G-M450-LFG	3	114.3	1.5	rolypropylene

Model Numbering

Chain type Chain pitch Chain type Tab guide attachments Fixed width Plate width Chain material 25 05 G M 450 **LFG** [blank]: No 325 = 82.6mm 450 = 114.3mm

Contact a Tsubaki representative for sprocket attachment positions.





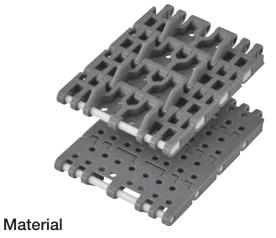
Operating temperature of (60) is for wet conditions.
 MF Medium Friction series must be used without lubrication (lube-free).

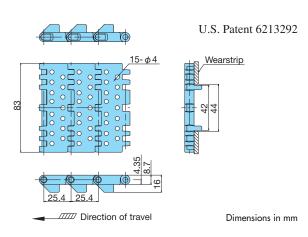
Plastic Modular Chain BT08-M

Open Type: Straight Running

Features

- Unique multi-hinge link construction ensures stable conveyance of small items and smooth transitions between conveyors.
- Plates are perforated with numerous drainage holes that effectively remove excess lubricant and water remaining on plate surface.
- All-plastic construction. Lightweight and easy to handle.





	Material	Material	Link color	Max. allowable load	Max. allowable	e speed m/min	Operating	BTO8-M
	Material	mark	LINK COIOF	kN {kgf}	With lube	No lube	temperature range °C	DIO0-M
	Standard	-	Gray					
		LFW	White					
	Low Friction/Anti-Wear	LFG	Green			50	-20 to 80 (60)	
Standard		LFB	Brown	1.08 {110}	50			0
chain	Ultra Low Friction	ULF	Blue	1.00 (110)	30			
	Low Friction	WR	Green					
		UL	Green					
		NLF	Dark gray					
	Heat Resistant/ High Speed	KV150						
		KV180	Black					
		KV250			-		-	_
	High Temperature	HTW	White	_		_		
	Low Temperature	LTW	White					
High-function	Chemical Resistant	Υ	Matte white					A
chain	Electroconductive	Е	Black	0.76 { 77}	50	50	-20 to 80 (60)	0
	Impact Resistant	DIA	Cream					
	impaci kesisiani	DIY	Green	_	_	_	_	_
,	Antibacterial/Mold Resistant	MWS	Cream	1.08 {110}	50	50	-20 to 80 (60)	0
	Metal Detectable	MPD	Black	_	_	_	_	_
	Meidi Delecidale	14 P\1/	DIUCK	_	_	_		_

Note: 1. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer.

-: Not available 🛕 : Special configurations may be available. Contact a Tsubaki representative for further information.

2. : Made-to-order product —: Not available 3. Operating temperature of (60) is for wet conditions.

Chain (Plastic Pins)

Material	Standard chain								
Malerial	Standard		Low Friction/Anti-Wear	Ultra Low Friction	Approx. mass kg/m				
Material mark	-	LFW	LFG	LFB	ULF	kg/III			
Tsubaki model no.	BTO8-830-M	BTO8-830-M-LFW	BTO8-830-M-LFG	BTO8-830-M-LFB	BTO8-830-M-ULF	0.7			

Note: 1. For use with special plastic pins.

2. The connecting pin is colored orange so as to distinguish it from base-chain pins (colored white).

Model Numbering



Note: Do not leave spaces between letters and symbols.



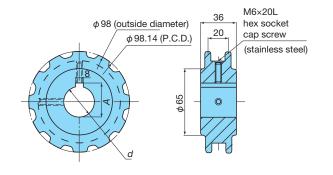
Sprockets & Idler Wheels for BT08-M Chain Engineering Plastic

Applicable chain

BTO8-M Note: Cannot be used with BTC8, BTM8H, BTC8H-M, or BTM8H-M chain.

Sprockets

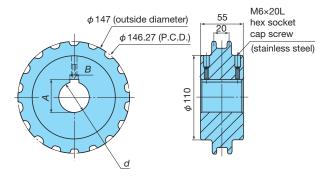
BTO8-12T



Tsubaki	Bore din	nensions	Approx.	Т	
model no.	d	Α	mass g	Type	
BTO8-12T25	25	28.3	200	Solid	
BTO8-12T30	30	33.3	200	Jolia	

- Material (main body): UHMW-PE
- Outside color: White
- Operating temperature range: -20°C to 60°C
- Made-to-order product

BTO8-18T

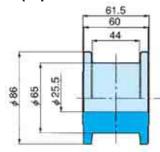


Tsubaki	Bor	e dimensi	ons	Approx.	Turno	
model no.	d	Α	В	mass g	Type	
BTO8-18T30	30	33.3	8	520	Solid	
BTO8-18T40	40	43.3	12	320	Solia	

- Material (main body): UHMW-PE
- Outside color: White
- Operating temperature range: -20°C to 60°C
- Made-to-order product

Idler Wheels

BTO8-12T25-IW (Equivalent to 12T Sprocket)



- Material (main body): UHMW-PE
- Outside color: White
- Operating temperature range: -20°C to 60°C
- Mass: 200 g
- Made-to-order product

Idler Wheels (Equivalent to 18T Sprocket)

Tsubaki model no.	Shaft diameter	Material (color)
TP-C12200BT-IW	25	
TP-C12201BT-IW	30	
TP-C12203BT-IW	40	- 1
TP-C12077BT-IW	25	Polyamide (black)
TP-C12078BT-IW	30	(Didek)
TP-C12079BT-IW	35	
TP-C12080BT-IW	40	

- Operating temperature range: −20°C to 80°C
- See page 84 for further information

Model Numbering



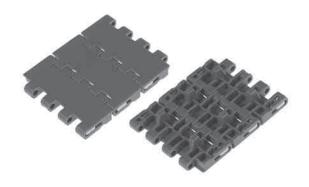
IW: Idler wheel [blank]: Sprocket (round hole; with keyway)

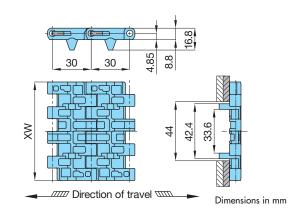
Note: Do not leave spaces between letters and symbols.

Plastic Modular Chain WT3005G-M Closed Type: Straight Running

Features

- Chain pitch is 30mm; chain can be driven using the same shafts as the WT1500 series.
- Tab guide attachments make this chain ideal for layouts with lateral transitions between conveyors.
- All-plastic construction. Lightweight and easy to handle.





Material

	Material	Material mark	Link color		vable load [kgf}	m/		Operating temperature range °C	WT3005G -M300	WT3005G -M450
		mark		M300	M450	With lube	No lube	lemperatore range e	711000	111-00
	Standard	-	Gray							
		LFW	White							
	Low Friction/Anti-Wear	LFG	Green		1.2 {122.0}	120				
Standard		LFB	Brown	0.8 { 81.1}			50	-20 to 80 (60)		
chain	ain Ultra Low Friction	ULF	Blue				30	-20 to 80 (60)		
		UL	Green						0	0
	Low Friction	NLF	Dark gray							
		WR	Green						A	A
		KV150								
	Heat Resistant/ High Speed	KV180	Black		_			_		
	Tilgit opeca	KV250]	_		_	_		_	_
	Chemical Resistant	Υ	Matte white							
re L.Ce	Electroconductive	Е	Black	0.6 {61.2}	0.9 {92.1}	120	50	-20 to 80 (60)	A	A
High-function chain	Impact Posistant	DIA	Cream							
Cidiii	Impact Resistant	DIY	Green							
	Antibacterial/Mold Resistant	MWS	Cream	_	_		_	_	_	_
	Metal Detectable	MPD	Black			_				
	Merai Derectable	MPW	DIACK							
	Middle Friction	MF	Yellow	0.59 {60.2}	0.89 {90.6}		50	-20 to 80	A	A

1. 🔾 : Made-to-order product 👚 - : Not available 🕒 : Special configurations may be available. Contact a Tsubaki representative for further information.

2. Operating temperature of (60) is for wet conditions

Chain (Plastic Pins)

Material	Ultra Low Friction			Open area	Plate width	Approx. mass	Pin material
Material mark	ULF	UL	NLF	%	XW mm	kg/m	
Tsubaki model no.	WT3005G-M300-ULF	WT3005G-M300-UL	WT3005G-M300-NLF	4	75.8	0.6	Special engineering
	WT3005G-M450-ULF	WT3005G-M450-UL	WT3005G-M450-NLF	4	113.8	0.8	plastic

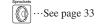
Model Numbering

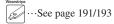


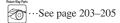
300 = 75.8mm 450 = 114.3mm

Note: Do not leave spaces between letters and symbols.

Contact a Tsubaki representative for sprocket attachment positions.







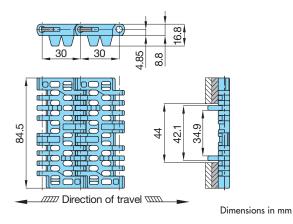
^{3.} MF Medium Friction series must be used without lubrication (lube-free).

Plastic Modular Chain WT3086G-M Closed Type: Straight Running

Features

- Chain pitch is 30mm; chain can be driven using the same shafts as the WT1500 series.
- Tab guide attachments make this chain ideal for layouts with lateral transitions between conveyors.
- All-plastic construction. Lightweight and easy to handle.





Material

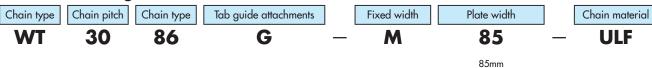
		Material		Max. allowable load	Max. allowable	e speed m/min	Operating	
	Material	mark	Link color	kN {kgf}	With lube	No lube	temperature range °C	WT3086G-M85
	Standard	-	Gray					
	Low Friction/Anti-Wear	LFW	White					•
		LFG	Green		120	50	-20 to 80 (60)	_
		LFB	Brown	0.0 (00.4)				
	Ultra Low Friction	ULF	Blue	0.9 {90.4}				
		UL	Green					0
	Low Friction	NLF	Dark gray					
		WR	Green					A
	Heat Resistant/ High Speed	KV150			-		-	
		KV180	Black			_		
		KV250		_				_
	Chemical Resistant	Υ	Matte white					
High-function	Electroconductive	Е	Black	0.69 {68.9}	120	50	-20 to 80 (60)	A
chain	Impact Resistant	DIA	Cream					
chain	impaci kesisiani	DIY	Green					
	Antibacterial/Mold Resistant	MWS	Cream	-		_	_	-
	Metal Detectable	MPD	Black		_			
	Meiai Delectable	MPW	DICK					
	Middle Friction	MF	Yellow	0.67 {67.3}		50	-20 to 80	A

- : Not available 🔺 : Special configurations may be available. Contact a Tsubaki representative for further information. Note: 1. (): Made-to-order product

Chain (Plastic Pins)

Material	Ultra Low Friction	Low Friction	Low Friction	Open area	Approx. mass	Pin material
Material mark	ULF	UL	NLF	%	kg/m	rin maieriai
Tsubaki model no.	WT3086G-M85-ULF	WT3086G-M85-UL	WT3086G-M85-NLF	27	0.6	Polypropylene

Model Numbering



Note: Do not leave spaces between letters and symbols.

Contact a Tsubaki representative for sprocket attachment positions.



^{2.} Operating temperature of (60) is for wet conditions.

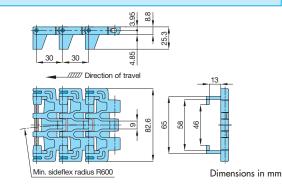
3. MF Medium Friction series must be used without lubrication (lube-free).

Plastic Modular Chain WT3085-C325 Closed Type: Sideflexing

Features

- Chain pitch is 30mm; chain can be driven using the same shafts as the WT1500 and WT3000 series.
- Because the height of the chain rails and conveying surface are the same as the WT1500 and WT3000 series, the height of the chain rail surfaces can be made the same as for the WT1500 and WT3000 series.





Material

	Material	Material mark	Link color	Max. allowable load kN {kgf}	Max. allowable With lube	e speed m/min No lube	Operating temperature range °C	WT3085-C325
	Standard	-	Gray				-20 to 80	
		LFW	White					
	Low Friction/Anti-Wear	LFG	Green					
Standard		LFB	Brown	0.55 {56}	100	50	-20 to 80 (65)	A
chain	Ultra Low Friction	ULF	Blue	0.55 (50)	100	30	-20 10 00 (03)	
		UL	Green					
	Low Friction	NLF	Dark gray					
		WR	Green				-20 to 80	0
	Heat Resistant/	KV150]					
	High Speed	KV180	Black	-		_	-	-
	High Speed	KV250						
	High Speed	HS	Cream	0.50 {51}		230	-20 to 50	0
	Chemical Resistant	Υ	Matte white					
High-function	Electroconductive	Е	Black		_			
chain	Impact Resistant	DIA	Cream					
	·	DIY	Green	_		_	_	_
	Antibacterial/Mold Resistant	MWS	Cream				_	
	Metal Detectable	MPD	Black					
		MPW						
	Middle Friction	MF	Yellow					

- 1. O: Made-to-order product -: Not available : Special configurations may be available. Contact a Tsubaki representative for further information.
 2. High Speed chain is intended for use only in dry environments (no lubrication). When used at chain speeds greater than 50 meters/minute, wearstrip must be SJ-CNO (special polyamide) or stainless steel (polished).
 3. Operating temperature of (65) is for wet conditions.

Chain (Stainless steel Pins)

Material	Low Friction	Low Friction High Speed Plate wid		Approx. n	nass kg/m	Pin material	
Material mark	WR	HS	mm	WR	WR HS		
Tsubaki model no.	WT3085-C325-WR	WT3085-C325-HS	82.6	0.9	0.8	Stainless steel	

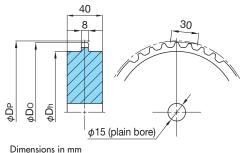
Model Numbering

Chain type Curved Plate width Chain Material WT3085 325

> (Plate width/100) Inch = 3.25 inches x 25.4 = 82.6mm

Note: Do not leave spaces between letters and symbols.

Engineering Plastic Sprockets for WT3085-C325 Chain



Tsubaki model no.	Effective teeth	Teeth	Pitch diameter Dp mm	Outside diameter Do mm	Hub diameter Dh mm	Approx. mass kg	Material
WT-S3085C3-27T	13-1/2	27	129.7	129	105	0.3	
WT-S3085C3-31T	15-1/2	31	148.5	148	125	0.5	UHMW-PE
WT-S3085C3-33T	16-1/2	33	158.0	158	135	0.6	

- Note: 1. Made-to-order product. Contact a Tsubaki representative for further information.
 2. Sprockets can also be fabricated with other shapes and number of teeth than noted above.
 - 3. Operating temperature range is -20° to 60°C. If operating temperatures will exceed 60°C, use stainless steel sprockets (made-to-order product).



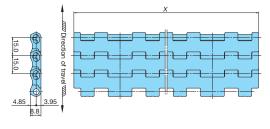
···See page 191/193

Plastic Modular Chain — Additional Options

BTC5







Material mark	Chain pitch mm	Link color	Open area %	Max. allowable load kN/m {kgf/m}	Chain mass kg/m²	Operating temperature range °C	Pin material	
LFB		Brown		10.5				
MWS		Cream		10.5 {1072}	7.90		Special	
ULF	15	Blue 2.5			-20 to 80 (60)	engineering		
DIA		Cream		7.85	5.90		plastic	
DIY	Gree			{ 800}	9.20			

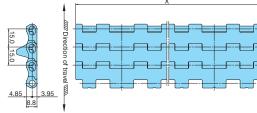
Note: 1. Operating temperature of (60) is for wet conditions. When plastic pins are replaced with stainless steel pins, the chain can be used in temperatures 60°C to 80°C in wet conditions. In this case, initial chain length will be slightly longer and chain mass heavier. Be sure to contact a Tsubaki representative before use.

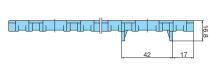
- 2. Values for max. allowable load assume that tension acts uniformly over the entire chain width and will vary according to operating conditions (temperature and speed). Refer to chain max. allowable load graphs. Values for max. allowable load in the table above are for chain that is one meter (1m) in width. To calculate values for other chain widths, multiply the chain width in question by the max. allowable load for one-meter (1m) wide chain. (Example: Max. allowable load for BTC5-3040-LFB = $10.5 \times 304/1000 = 3.19 \text{ kN}$)
- 3. Made-to-order product.

BTC5-A

With tab guide attachments







- Chain Open Max. allowable Operating Chain mass Material Link color pitch temperature Pin material mark kg/m² kN/m {kgf/m} LFB Brown 10.5 MWS Cream 7.90 Special {1072} ULF -20 to 80 (60) Blue engineering plastic DIA Cream 5.90 7.85 { 800} DIY Green
- Note: 1. Operating temperature of (60) is for wet conditions. When plastic pins are replaced with stainless steel pins, the chain can be used in temperatures 60°C to 80°C in wet conditions. In this case, initial chain length will be slightly longer and chain mass heavier. Be sure to contact a Tsubaki representative before use.
 - 2. Values for max. allowable load assume that tension acts uniformly over the entire chain width and will vary according to operating conditions (temperature and speed). Refer to chain max. allowable load graphs. Values for max. allowable load in the table above are for chain that is one meter (1m) in width. To calculate values for other chain widths, multiply the chain width in question by the max. allowable load for one-meter (1m) wide chain. (Example: Max. allowable load for BTC5-3040-A-LFB = $10.5 \times 304/1000 = 3.19 \text{ kN}$)

 - Made-to-order product.
 Chain with tab guide attachments will be 0.5 kg/m heavier. Tab guide attachments are attached to every second link on one side of the chain.

Special Sprockets for BT5 Chain

Contact a Tsubaki representative for further information on using BT5 Special Sprockets (BT5-24T, BT5-32T).

■ BTC6 Chain with Float-Preventive Tabs

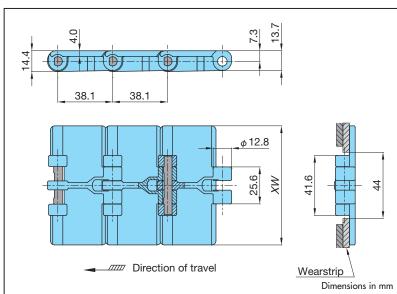
BTC6 Closed Type Plastic Modular Chain can also be manufactured with float-preventive tabs to prevent chain float ground curves.

Plastic Top Chain TTP

Features

- Worldwide standard shape. Can be used in a diverse range of applications.
- Wide range of plate widths available. Can accommodate a wide range of conveyed object sizes.





Model Numbering



Note: Do not leave spaces between letters and symbols.

Connecting Pin

1. 304 stainless steel D-pin Model no. TTP-SUS-JPD

Material

	Material	Material mark	Link color	Max. allowable load kN {kgf}		lowable m/min No lube	Operating temperature range °C	TTP 635	TTP 762	TTP 826	TTP 1016	TTP 1143	TTP 1270	TTP 1524	TTP 1651	TTP 1905	
	Standard	-	Gray							•		•				•	
		LFW	White							0		0				0	
Standard	Low Friction/Anti-Wear	LFG	Green	0.83 {85}	100	50	-20 to 80							0			
chain		LFB	Brown	0.03 (03)	100	30	-20 10 60						0	0	0		
	Ultra Low Friction	ULF	Blue					0									
	Low Friction	WR	Green														
	Heat Resistant/	KV150		0.83 {85}	-	200	-20 to 150										
	High Speed	KV180	Black	0.03 (03)	200	200	-20 to 180				-	-	-	-	-	-	
	riigii speed	KV250		_	-	ı	_	_	-	-							
	High Speed	HS	Cream	0.74 {75}	-	230	-20 to 50										
High-function	Chemical Resistant	Υ	Matte white	0.41 {42}	100									0	\circ	0	
chain	Electroconductive	E	Black	0.58 {59}	100												
chain	Impact Resistant	DIA	Cream	0.69 {70}	-	50	-20 to 80	0	0	0	0	0	0				
	impaci kesisiani	DIY	Green	0.07 (70)	100	30	-20 10 60							A	•	A	
	Antibacterial/Mold Resistant	MWS	Cream	0.83 {85}	100												
	Motal Datastable	MPD	Black	0.69 {70}	-												
	Metal Detectable	MPW	DIOCK	-	-	_	_		A		A			_	_	_	

Note: 1. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer. Standard chain length is 80 links.

2.
■: Standard product : Made-to-order product -: Not available

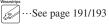
■: Special configurations may be available. Contact a Tsubaki representative for further information.

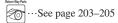
Chain (Stainless Steel Pins)

Material	Standard	Lo	w Friction/Anti-We	ar	Ultra Low Friction	Low Friction	Top plate width	Approx. mass
Material mark	-	LFW	LFG	LFB	ULF	WR	XW mm	kg/m
	TTP635	TTP635-LFW	TTP635-LFG	TTP635-LFB	TTP635-ULF	TTP635-WR	63.5	0.8
	TTP762	TTP762-LFW	TTP762-LFG	TTP762-LFB	TTP762-ULF	TTP762-WR	76.2	0.9
	TTP826	TTP826-LFW	TTP826-LFG	TTP826-LFB	TTP826-ULF	TTP826-WR	82.6	0.9
	TTP1016	TTP1016-LFW	TTP1016-LFG	TTP1016-LFB	TTP1016-ULF	TTP1016-WR	101.6	1.0
Tsubaki model no.	TTP1143	TTP1143-LFW	TTP1143-LFG	TTP1143-LFB	TTP1143-ULF	TTP1143-WR	114.3	1.0
	TTP1270	TTP1270-LFW	TTP1270-LFG	TTP1270-LFB	TTP1270-ULF	TTP1270-WR	127.0	1.1
	TTP1524	TTP1524-LFW	TTP1524-LFG	TTP1524-LFB	TTP1524-ULF	TTP1524-WR	152.4	1.2
	TTP1651	TTP1651-LFW	TTP1651-LFG	TTP1651-LFB	TTP1651-ULF	TTP1651-WR	165.1	1.3
	TTP1905	TTP1905-LFW	TTP1905-LFG	TTP1905-LFB	TTP1905-ULF	TTP1905-WR	190.5	1.4

Material	Heat Resistan	t/High Speed	Impact I	Resistant	Top plate width	Approx. mass	
Material mark	KV150	KV180 DIA		DIY	XW mm	kg/m	
Tsubaki model no.	TTP826-KV150	TTP826-KV180	TTP826-DIA	TTP826-DIY	82.6	0.9 DIA: 0.75 DIY: 1.10	
isobaki model no.	-	-	TTP1143-DIA	TTP1143-DIY	114.3	DIA: 0.8 DIY: 1.20	

Note: 1. As of October 2007, knurled connecting pins have been changed to D-pins. 2. Knurled-pin chain can be connected to D-pin chain.



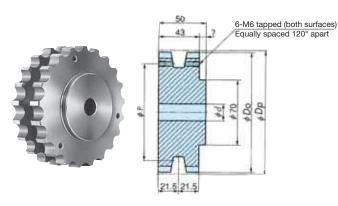


Sprockets for TTP Chain

Applicable chain

TTP, TTPH, TTPT

Sprockets (with Plain Bore)

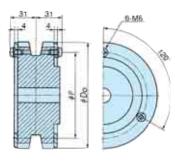


Ì	Tsubaki	Actual	Effective	Pitch Outside			Bore diamete		Approx.	
	model no.	teeth	teeth	diameter Dp	diameter Do	Р	Plain bore	Max.	mass kg	Material
	TTP912T	19	91/2	117.34	117	92		40	2.5	
	TTP1012T	21	101/2	129.26	129	104	18		3.2	Carbon
	TTP1112T	23	111/2	141.22	141	116	10	40	3.7	steel
	TTP1212T	25	121/2	153.20	153	128			4.4	

Note: Teeth on all sprockets have not been hardened.

• Guide Rings

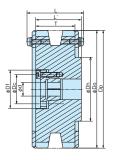




Tsubaki model no.	Applicable sprocket no.	Outside diameter <i>Do</i>	Installed pitch diameter P	Approx. mass kg
TT912G	TTP912T TT912T	116	92	0.17
TT1012G	TTP1012T TT1012T	128	104	0.19
TT1112G	TTP1112T TT1112T	140	116	0.21
TT1212G	TTP1212T TT1212T	152	128	0.23
				·

Note: One set consists of two (2) guide rings and six (6) mounting bolts.

Lock Sprockets



■ Lock Sleeve Dimensions

Sleeve no.	Df diameter mm	Dc diameter mm	Bolt size M × L	Bolt tightening torque N·m
S2	42.0	32.0	$M5 \times 18$	8.3
S3	48.5	38.5	$M5 \times 20$	8.3
S4	56.0	46.0	M5 × 20	8.3
S5	66.0	56.0	M5 × 22	8.3

Tsubaki model no.	Actual teeth	Pitch diameter Dp mm	Outside diameter Do mm	Facewidth T mm	Hub diameter Dh mm	Length L mm	Length L' mm
TTP912T	19	117.34	117		70	62	50
TTP1012T	21	129.26	129	43.0			
TTP1112T	23	141.22	141	43.0	/0	02	30
TTP1212T	25	153.20	153				

■ Sleeve Combinations and Transfer Torque Values

Slee	eve no.	\$2							S3		S4			S5				
Bore diameter d mm		15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45
							٨	Λax. al	lowabl	e trans	fer torc	ue N∙r	n					
	TTP912T																	
Tsubaki model	TTP1012T	120	1.40	1.50	1/7	177	10/	20.5	1/7	174	105	270	298	325	440	475	E0./	/20
model no.	TTP1112T	139	149	158	167	177	186	205	167	174	195	279	298	323	442	465	586	628
no.	TTP1212T																	

Model Numbering

Chain type

Effective teeth 1012

Sprocket or guide ring

Bore diameter S18

TTP TTPH (All chain types are to be specified "TTP") T: Sprocket G: Guide ring

[blank]: Plain bore S + bore diameter: Lock sprocket

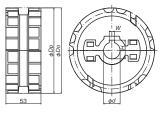
Note: Do not leave spaces between letters and symbols.

Sprockets

Applicable chain

TTP, TTPH, TTPT





Tsubaki	Actual	Effective	Pitch	Outside	Shaft	Key	way	Approx.	_	Mat	erial	
model no.	teeth	teeth	diameter <i>Dp</i>	diameter Do	diameter d	W	Н	mass kg	Туре	Body	Bolt & nut	
TP-C12057NT-SPR					25	8	28.3	0.45				
TP-C12058NT-SPR	21	101/2	129.26	129.0	30	8	33.3	0.44				
TP-C12059NT-SPR	21	1072	127.20	127.0	35	10	38.3	0.42				
TP-C12060NT-SPR					40	12	43.3	0.42	Split type.			
TP-C12104NT-SPR					25	8	28.3	0.48	эрш туре.	Reinforced	Brass	
TP-C12105NT-SPR	23	111/2	141.22	142.0	30	8	33.3	0.45	Keyway	polyamide	+	
TP-C12106NT-SPR	23	1172	141.22	142.0	142.0	35	10	38.3	0.45	specifications:		nickel
TP-C12107NT-SPR					40	12	43.3	0.42	DIN 6885	black)	plating	
TP-C12069NT-SPR					25	8	28.3	0.60	key seat			
TP-C12070NT-SPR	25	25 12½ 1	153.20	1540	30	8	33.3	0.59				
TP-C12071NT-SPR	25		133.20	154.0	35	10	38.3	0.57				
TP-C12072NT-SPR					40	12	43.3	0.55				

- Note: 1. Standard product.

 - 2. Operating temperature range: -20°C to 80°C

 3. Bolt tightening torque: 6 N·m {0.61 kgf·m}

 4. When assembling the halves of the sprocket, do not mix the halves with halves from other sprockets.

Idler Wheels

Applicable chain

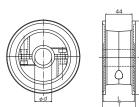
TTP, TTPH, TTPT, TPF, TT, TP-OTD, TPS, TTUP, TTUPH, TTU, TPH











Tsubaki model no.	Equivalent no. of teeth	Outside diameter Do	Shaft diameter d	Hub length <i>L</i>	Width T	Approx. mass kg	Material	Туре		
TP-C12200BT-IW			25			0.21				
TP-C12201BT-IW	21	129.8	30	52	58	0.21				
TP-C12203BT-IW			40			0.19				
TP-C12212BT-IW			25			0.20	D. I I.			
TP-C12213BT-IW	23	142.2	30	52	58	0.20	Polyamide (color: black)	Solid		
TP-C12215BT-IW			40			0.21	(color, black)			
TP-C12204BT-IW			25			0.23				
TP-C12205BT-IW	25	154.7	30	52	58	0.23				
TP-C12207BT-IW			40			0.25				
TP-C12077BT-IW			25			0.26				
TP-C12078BT-IW	21	129.8	30	61	58	0.25				
TP-C12079BT-IW	21	127.0	35	01	36	0.28				
TP-C12080BT-IW			40			0.25	Bolt & nut:			
TP-C121928BT-IW			25			0.29	Stainless steel			
TP-C121929BT-IW	23	1.42.2	142.2	142.2	30	61	58	0.27	Body:	Split
TP-C121930BT-IW	25	142.2	35	01	30	0.30	Polyamide	Spili		
TP-C121931BT-IW			40			0.27	(color: black)			
TP-C12081BT-IW			25			0.32				
TP-C12082BT-IW	25	154.7	30	61	50	0.30				
TP-C12083BT-IW	23	134./	35	61	58	0.32				
TP-C12084BT-IW			40			0.30				

Note: 1. Standard product.

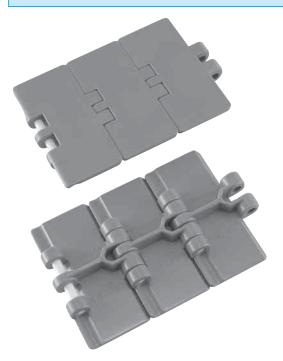
- 2. Operating temperature range: -20°C to 80°C
 3. Bolt tightening torque: 6 N·m {0.61 kgf·m}
 4. When assembling the halves of the idler wheel, do not mix the halves with halves from other idler wheels.
 5. Should not be used under abrasive conditions.
 6. Shaft metal must be polished.

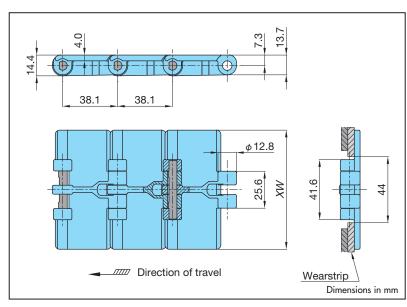
Plastic Top Chain TTP

Plastic Pins: Straight Running

Features

- Worldwide standard shape. Can be used in a diverse range of applications.
- Wide range of plate widths available. Can accommodate a wide range of conveyed object sizes.
- All-plastic construction means light weight and easy handling. Longer service life under water lubrication. than stainless steel pins.





Model Numbering



Plate width **826**



Chain material

Note: Do not leave spaces between letters and symbols.

Connecting Pin

Special engineering plastic D-pin, orange Model no. TTP-PLA-JPD

Material

	Material	Material mark	Link color	Max. allowable load kN {kgf}	Max. al speed With lube	m/min	Operating temperature range °C	TTP 635P	TTP 762P	TTP 826P	TTP 1016P	TTP 1143P	TTP 1270P	TTP 1524P	TTP 1651P	TTP 1905P
	Standard	-	Gray									•				
		LFW	White							0		0				
Standard	Low Friction/Anti-Wear	LFG	Green	0.83 {85}	100	50	-20 to 80 (60)	0			\circ					
chain		LFB	Brown	0.63 (63)	100	30	-20 10 80 (80)	0	0		0		0		0	
	Ultra Low Friction	ULF	Blue													
	Low Friction	WR	Green													
		KV150														
	Heat Resistant/ High Speed	KV180	Black			_	_		_		_		_			
	піgn speed	KV250		_		_	_	_	_	-	_	-	_	_	-	-
	High Speed	HS	Cream													
re L Ce	Chemical Resistant	Υ	Matte white	0.41 {42}	100			A	A		A	A	A	A	A	
High-function chain	Electroconductive	Е	Black	0.58 {59}	100			0	0	0	0	0	0	0	0	0
Citalii	Income the Contract	DIA	Cream	-	-	50	-20 to 80 (60)	-	-	-	-	-	-	-	-	_
Ir	Impact Resistant	DIY	Green	0.69 {70}	100	1		0				0	_		•	
	Antibacterial/Mold Resistant	MWS	Cream	0.83 {85}	100			0	0		0					
	Metal Detectable	MPD	Black	_	-	-	_	-	-	-	-	-				
	Meidi Delecidble	MPW	DIUCK	0.34 {35}	5	0	-20 to 60	0	0	0	0	0	_	_	_	

- 4. Operating temperature of (60) is for wet conditions.

Chain (Plastic Pins)

Material	Standard		Low Friction/Anti-Wear		Top plate width	Approx.
Material mark	-	LFW	LFG	LFB	XW mm	mass kg/m
	TTP635P	TTP635P-LFW	TTP635P-LFG	TTP635P-LFB	63.5	0.55
	TTP762P	TTP762P-LFW	TTP762P-LFG	TTP762P-LFB	76.2	0.65
	TTP826P	TTP826P-LFW	TTP826P-LFG	TTP826P-LFB	82.6	0.65
	TTP1016P	TTP1016P-LFW	TTP1016P-LFG	TTP1016P-LFB	101.6	0.75
Tsubaki model no.	TTP1143P	TTP1143P-LFW	TTP1143P-LFG	TTP1143P-LFB	114.3	0.8
	TTP1270P	TTP1270P-LFW	TTP1270P-LFG	TTP1270P-LFB	127.0	0.85
	TTP1524P	TTP1524P-LFW	TTP1524P-LFG	TTP1524P-LFB	152.4	0.95
	TTP1651P	TTP1651P-LFW	TTP1651P-LFG	TTP1651P-LFB	165.1	1.05
	TTP1905P	TTP1905P-LFW	TTP1905P-LFG	TTP1905P-LFB	190.5	1.2

Material	Ultra Low Friction	Low Friction	Impact Resistant	Top plate width	Approx.
Material mark	ULF	WR	DIY	XW mm	mass kg/m
	TTP635P-ULF	TTP635P-WR	TTP635P-DIY	63.5	0.55
	TTP762P-ULF	TTP762P-WR	TTP762P-DIY	76.2	0.65
	TTP826P-ULF	TTP826P-WR	TTP826P-DIY	82.6	0.65 DIY: 0.80
	TTP1016P-ULF	TTP1016P-WR	TTP1016P-DIY	101.6	0.75
Tsubaki model no.	TTP1143P-ULF	TTP1143P-WR	TTP1143P-DIY	114.3	0.80 DIY: 1.00
	TTP1270P-ULF	TTP1270P-WR	-	127.0	0.85
	TTP1524P-ULF	TTP1524P-WR	_	152.4	0.95
	TTP1651P-ULF	TTP1651P-WR	_	165.1	1.05
	TTP1905P-ULF	TTP1905P-WR	_	190.5	1.20

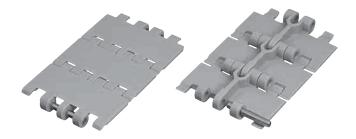
Note: 1. As of October 2007, knurled connecting pins have been changed to D-pins. 2. Knurled-pin chain can be connected to D-pin chain.

Plastic Top Chain TTPH

Straight Running

Features

- Comb-toothed plates minimize gaps between links. Ideal for conveying unstable containers such as PET bottles and dessert cups.
- Surface of top plate is flatter and smoother. Effective in preventing container wobbling and toppling during conveyance.
- ▶ Both ends of the plates are slightly chamfered, ensuring smooth lateral plate-to-plate transfers between adjacent chains.
- Same basic dimensions as TTP826 plastic top chain. Can provide stable container conveyance simply by replacing the chain.



Model Numbering

Chain type

Plate width

Plastic pin

Chain material

TTPH

Note: Specify "P" only when pins are to be plastic. Do not leave spaces between letters and symbols.

Wearstrip IIII Direction of travel Dimensions in mm

Connecting Pin

- 1. 304 stainless steel D-pin Model no. TTP-SUS-JPD
- 2. Special engineering plastic D-pin, orange Model no. TTP-PLA-JPD

Material

	Material	Max. allowable load Max. allowable spee	e speed m/min	Operating	TTPH	TTPH-P			
	Maleriai	mark	LITIK COIOI	kN {kgf}	With lube	No lube	temperature range °C	ПГП	HIFTIFF
	Standard	-	Gray					0	
		LFW	White						
Standard	Low Friction/Anti-Wear	LFG	Green	0.83 {85}	100	50	-20 to 80 (60)		
chain		LFB	Brown	0.03 (03)	100	30	-20 10 00 (00)		
	Ultra Low Friction	ULF	Blue						
	Low Friction	WR	Green					A	A
	Heat Resistant/	KV150							
	High Speed	KV180	Black						
	riigii opeca	KV250			_	_	_	_	_
	High Speed	HS	Cream						
u: £	Chemical Resistant	Y	Matte white	0.41 {42}	100				A
High-function chain	Electroconductive	Е	Black	0.58 {59}	100				0
chain	Impact Resistant	DIA	Cream	0.69 {70}	_	50	-20 to 80 (60)	0	
	impaci kesisiani	DIY	Green	0.07 (70)	100				
	Antibacterial/Mold Resistant	MWS	Cream	0.83 {85}	100				
	Metal Detectable	MPD	Black					•	_
	Meidi Delecidble	MPW	DIUCK	Black –		_	_		A

Note: 1. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer. Standard chain length is 80 links.

2. ●: Standard product ○: Made-to-order product -: Not available ▲: Special configurations may be available. Contact a Tsubaki representative for further information.

3. The plastic connecting pin is colored orange so as to distinguish it from base-chain pins (colored white).

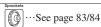
4. Operating temperature of (60) is for using plastic-pin chain in wet conditions.

Chain (Stainless Steel Pins)

Material	Standard	Lo	Low Friction/Anti-Wear			Impact I	Resistant	Approx. mass
Material mark	-	LFW	LFG	LFB	ULF	DIA	DIY	kg/m
Tsubaki model no.	TTPH826	TTPH826-LFW	TTPH826-LFG	TTPH826-LFB	TTPH826-ULF	TTPH826-DIA	TTPH826-DIY	0.9 DIA: 0.75 DIY: 1.10

Chain (Plastic Pins)

Material	Standard	l	ow Friction/Anti-Wea	r	Ultra Low Friction	Impact Resistant	Approx. mass
Material mark	-	LFW	LFG	LFB	ULF	DIY	kg/m
Tsubaki model no.	TTPH826P	TTPH826P-LFW	TTPH826P-LFG	TTPH826P-LFB	TTPH826P-ULF	TTPH826P-DIY	0.65 DIY: 0.80



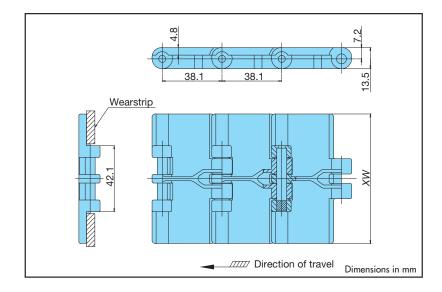


Plastic Top Chain TTPT

Features

 Plates are thicker than TTP chain. Ideal for applications where the plates would be susceptible to wear. (Plate thickness: TTPT = 4.8mm, TTP = 4.0mm)





Model Numbering

Chain type Plate width

Chain material

TTPT

826

LFB

Note: Do not leave spaces between letters and symbols.

Chain (Stainless Steel Pins)

Tsubaki model no.	Chain width	Тор	plate	Max. allowable load	Approx. mass
isubaki model no.	XVV mm	Material	Color	kN{kgf}	kg/m
TTPT826-LFB	82.6				1.04
TTPT1143-LFB	114.3	Low-friction polyacetal	Brown	0.83{85}	1.29
TTPT1905-LFB	190.5	polyaceiai			1.82

Note: 1. Standard product.

- Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer. Standard chain length is 80 links.
 Available only in LFB (Low Friction/Anti-Wear) material.
 Connecting pins not sold separately.
 Plastic pins are not available.

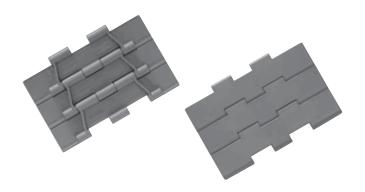


Plastic Top Chain TTPDH

Straight Running

Features

- Higher maximum allowable load than TTP chain (approx. double). Ideal for higher applied load conditions.
- Plates are wider, and thus can be used to convey larger objects.



Model Numbering

Chain type

Plate width

Chain material

TTPDH

1905

LFB

Note: Do not leave spaces between letters and symbols.

Chain (Stainless Steel Pins)

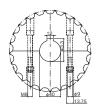
Material	Tsubaki model no.	Chain width	Тор (plate	Max. allowable load	Approx. mass
Maleria	isobaki iilodei iio.	XW mm	Material	Color	kN{kgf}	kg/m
	TTPDH1905	190.5			2.59	
Standard	TTPDH2540	254.0	Polyacetal	Gray		3.08
	TTPDH3048	304.8			1.67 {170}	3.35
	TTPDH1905-LFB	190.5			1.07 {170}	2.59
Low Friction/Anti-Wear	TTPDH2540-LFB	254.0	Low-friction polyacetal	Brown		3.08
	TTPDH3048-LFB	304.8	polyaceiai			3.35

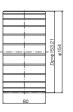
Note: 1. Standard product.

- Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer. Standard chain length is 80 links.
 Available only in Standard and LFB (Low Friction/Anti-Wear) material.
 Connecting pins are 304 stainless steel knurled pins.
 Plastic pins are not available.

Sprockets







Tsubaki model no.	Actual teeth	Effective teeth	Approx. mass kg	Material	Keyway	Туре
TP-C12295T-SPR	25	121/2	0.97	Polyamide (color: white) Bolt: Stainless steel Nut: Brass + nickel plating	DIN 6885 key seat	Split

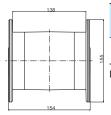
Note: 1. Standard product.

- 2. Operating temperature range: -20°C to 80°C
- 3. Bolt tightening torque: 6 N m {0.61 kgf·m}
 4. When assembling the halves of the sprocket, do not mix the halves with halves from other sprockets.

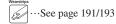
Idler Wheels

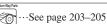






Tsubaki model no.	Equivalent no. of teeth	Shaft diameter d	Approx. mass kg	Material	Color	Туре
TP-C121646T-IW	25	35	0.76	Body: Polyamide Bolt: Stainless steel	Black	Solid
Note: Standard pro	duct					-





Plastic Top Chain TTPM

Features

- Chain pitch is approximately one-half of conventional conveyor chains, effectively lowering conveyor noise level and reducing the gap between the end of one conveyor and the start of the next conveyor.
- With a plate width of 50mm, this plastic top chain is ideal for conveying small objects.



Model Numbering

Chain type

Plate width

Chain material

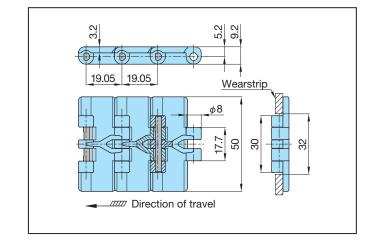
TTPM

500

BL

Note: Do not leave spaces between letters and symbols.

Material



	Material	Material	Link color	Max. allowable load		e speed m/min	Operating	TTPM500
	Malerial	mark	LITIK COIOI	kN {kgf}	With lube	No lube	temperature range °C	11174500
	Standard	W	White				-20 to 80	
	Standara	BL	Sky blue				-20 10 00	
6.		LFW	White					
Standard chain	Low Friction/Anti-Wear	LFG	Green	0.29 {30}	100	50	-20 to 80 (65)	
l		LFB	Brown				-20 to 60 (63)	A
	Ultra Low Friction	ULF	Blue					
	Low Friction	WR	Green				-20 to 80	
	Heat Resistant/ High Speed	KV150						
		KV180	Black	-	-	_	_	-
		KV250						
	High Temperature/Chemical Resistant	HTW	White	0.15 {15}	100	50	5 to 100	A
	High Speed	HS	Cream	-	-	-	-	_
High-function	Chemical Resistant	Υ	Matte white	0.29 {30}	100	50	-20 to 80	_
chain	Electroconductive	Е	Black	0.24 {24}	100	50	-20 to 80	
	Inner met De sintemet	DIA	Cream					
A	Impact Resistant	DIY	Green					
	Antibacterial/Mold Resistant	MWS	Cream	_	-	_	_	_
	Metal Detectable	MPD	Black					
	Meral Defectable	MPW	DICK					

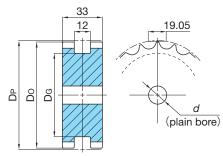
Note: 1. ● : Standard product — : Not available ▲ : Sp 2. Operating temperature of (65) is for wet conditions. 3. Standard chain length is 160 links. ▲ : Special configurations may be available. Contact a Tsubaki representative for further information.

Chain (Stainless Steel Pins)

Material	Stan	dard	Approx. mass
Material mark	W	BL	kg/m
Tsubaki model no.	TTPM500-W	TTPM500-BL	0.4

Note: 1. Can be connected to older existing round-pin chain (TTDS-20).
2. Plastic pins are not available.

Steel Sprockets for TTPM Chain



Tsubaki model no.	Teeth	Pitch diameter D _P	Outside diameter Do	Groove diameter DG	Bore did Plain bore		Approx. mass kg	Material
TTPM1200T	12	73.6	73	59		35	0.9	
TTPM1400T	14	85.6	85	70		40	1.2	
TTPM1500T	15	91.6	92	75	15	40	1.4	Carbon
TTPM1900T	19	115.7	116	100	13		2.4	steel
TTPM2100T	21	127.8	128	110		50	2.9	
TTPM2300T	23	139.9	141	125			3.5	

Note: 1. Made-to-order product.

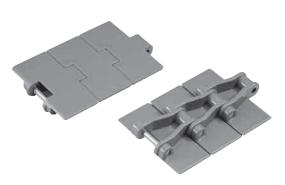
2. Sprockets can also be manufactured with other number of teeth than noted above.

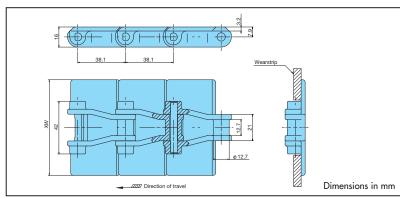


Plastic Top Chain TPF

Features

- DApprox. 40% higher maximum allowable load than TTP plastic top chain. Ideal for higher applied load conditions.
- 3.2mm plate thickness, the same plate thickness as TT stainless steel top chain.





Model Numbering

Chain type

Plate width

Chain material

TPF

826

LFB

Note: Do not leave spaces between letters and symbols.

Connecting Pin

1. 304 stainless steel D-pin Model no. TPF-SUS-JPD

Material

	Material	Material mark	Link color	Max. allowable load kN {kgf}	Max. allowable	e speed m/min No lube	Operating temperature range °C	TPF762	TPF826
		_	Gray	Ki ([Kgi)	WIIII IODE	9401001	iomperatore range c		
	Standard	W	,					•	•
		LFW	White						0
Standard chain	Low Friction/Anti-Wear	LFG	Green	1.18 {120}	100	50	-20 to 80		
Cidiii		LFB	Brown					0	
	Ultra Low Friction	ULF	Blue						0
	Low Friction	WR	Green					A	A
	Heat Resistant/ High Speed	KV150		_			-		
		KV180	Black						
		KV250	1	_	_	_		_	_
	High Speed	HS	Cream						
	Chemical Resistant	Υ	Matte white	0.59 { 60}	100			0	0
High-function chain	Electroconductive	Е	Black	0.82 { 84}	100			-	_
Cidiii	Impact Resistant	DIA	Cream	0.93 { 95}	-	50	-20 to 80		
	impaci kesisiani	DIY	Green	0.73 { 73}	100			0	0
	Antibacterial/Mold Resistant	MWS	Cream	1.18 {120}	100				
	Metal Detectable	MPD	Black	_	_	_	_	A	A
-		MPW							

Note: 1. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total

chain length as ordered by the customer. Standard chain length is 80 links.

2. ● : Standard product ○ : Made-to-order product - : Not available

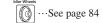
▲ : Special configurations may be available. Contact a Tsubaki representative for further information.

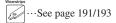
Chain (Stainless Steel Pins)

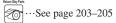
Material	Material Standard			Friction/Anti-V	Vear	Ultra Low Friction	Impact F	Resistant	Top plate width	Approx.
Material mark	-	W	LFW	LFG	LFB	ULF	DIA	DIY	XW mm	kg/m
Tsubaki model no.	TPF762	TPF762-W	TPF762-LFW	TPF762-LFG	TPF762-LFB	TPF762-ULF	TPF762-DIA	TPF762-DIY	76.2	0.85 DIA: 0.75 DIY: 1.10
isobaki model no.	TPF826	TPF826-W	TPF826-LFW	TPF826-LFG	TPF826-LFB	TPF826-ULF	TPF826-DIA	TPF826-DIY	82.6	0.85 DIA: 0.75 DIY: 1.10

Note: 1. Plastic pins are not available.

As of January 2009, knurled connecting pins have been changed to D-pins.
 Knurled-pin chain and D-pin chain cannot be connected. When replacing, always replace the entire chain.







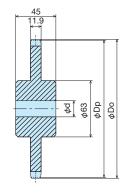
Sprockets for TPF Chain

Applicable chain

TPF

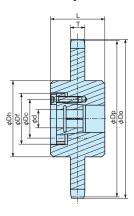
Sprockets (with Plain Bore)





Tsubaki	Actual teeth	Effective teeth	Pitch diameter	Outside diameter	Bore diam	neter d mm	Approx. mass	Material
model no.	Actour reem	Lifective feelif	Dp mm	Do mm	Plain bore	Max.	kg	Maleriai
TPF912T	19	91/2	117.34	120.0			1.7	
TPF1012T	21	101/2	129.26	131.5	18	42	1.9	Carbon steel
TPF1112T	23	111/2	141.22	143.5	10	42	2.1	(machined)
TPF1212T	25	121/2	153.20	155.5			2.3	

Lock Sprockets



■ Lock Sleeve Dimensions

Sleeve no.	Df diameter mm	Dc diameter mm	Bolt size M × L	Bolt tightening torque N·m
S2	42.0	32.0	$M5 \times 18$	8.3
S3	48.5	38.5	$M5 \times 20$	8.3
S4	56.0	46.0	$M5 \times 20$	8.3

Tsubaki model no.	Actual teeth	Pitch diameter Dp mm	Outside diameter Do mm	Facewidth T mm	Hub diameter Dh mm	Length L mm
TPF912T	19	117.34	120.0			
TPF1012T	21	129.26	131.5	11.9	63	45
TPF1112T	23	141.22	143.5	11.7	03	43
TPF1212T	25	153.20	155.5			

■ Sleeve Combinations and Transfer Torque Values

Slee	ve no.				S2					S3			S4	
Bore dian	neter d mm	15	16	17	18	19	20	22	24	25	28	30	32	35
						Max.	allowab	le transf	er torqu	ie N⋅m				
	TPF912T													
Tsubaki model	TPF1012T	105	112	119	126	133	139	153	167	174	195	279	298	325
nodei no.	TPF1112T	103	112	119	120	133	139	155	10/	1/4	193	2/9	290	323
110.	TPF1212T													

Model Numbering

Chain type

Effective teeth

Bore diameter

TPF

1012T

S18

[blank]: Plain bore S + bore diameter: Lock sprocket

Note: Do not leave spaces between letters and symbols.

Plastic Top Chain TP-OTD

Straight Running

Features

- Approx. 30% higher maximum allowable load than TTP plastic top chain. Ideal for higher applied load conditions.
- Uses the same 4.0mm plate thickness as TTP and TTUP types, making it easy to adjust the level of wearstrips of lines running in parallel.



Model Numbering

Chain type

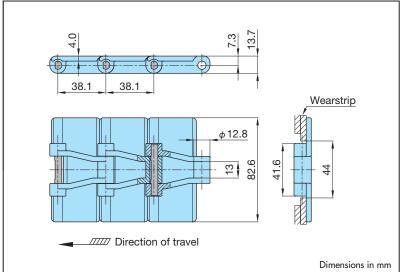
Plate width

TP-OTD

32

32 = 82.6mm

Note: Do not leave spaces between letters and symbols.



Material

	Material	Material	Link color	Max. allowable load		e speed m/min	Operating	TP-OTD32
	Malerial	mark	LITIK COIOI	kN {kgf}	With lube	No lube	temperature range °C	11-01032
	Standard	-	Gray				-20 to 80	•
		LFW	White					
Standard chain	Low Friction/Anti-Wear	LFG	Green	1.08 {110}	100	50	-20 to 80 (65)	
		LFB	Brown		100	30	-20 10 60 (63)	A
	Ultra Low Friction	ULF	Blue					
L	Low Friction	WR	Green				-20 to 80	
	II . D /	KV150					-	
	Heat Resistant/ High Speed	KV180	Black	_		_		-
		KV250			_			
	High Speed	HS	Cream	0.97 {100}		230	-20 to 50	0
redf e	Chemical Resistant	Y	Matte white	1.08 {110}	100	50	-20 to 80	
High-function chain	Electroconductive	Е	Black	0.86 { 88}	100	30	-20 10 60	
chain		DIA	Cream					
	Impact Resistant	DIY	Green					
	Antibacterial/Mold Resistant	MWS	Cream	_	_	_	-	-
	Metal Detectable	MPD	Black					
	Meiai Delectable	MPW	DICK					

- Note: 1. ●: Standard product ○: Made-to-order product -: Not available

 ▲: Special configurations may be available. Contact a Tsubaki representative for further information.

 2. Operating temperature of (65) is for wet conditions.

 3. Standard chain length is 80 links.

Chain (Stainless Steel Pins)

Material	Standard	Plate width	Approx. mass
Material mark	-	mm	kg/m
Tsubaki model no.	TP-OTD32	82.6	0.9

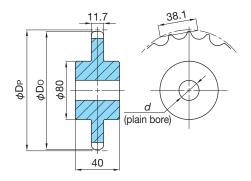
Note: Plastic pins are not available.



Steel

Sprockets for TP-OTD Chain

Steel Sprockets for TP-OTD Chain



Tsubaki	Actual teeth	Effective teeth	Pitch diameter	Outside diameter	Bore did	ameter d	Approx. mass	Material	
model no.	Actual feelin	Lifective feelif	Dp	Do	Plain bore	Max.	· · kg	Maleriai	
TP-OTD1012T	21	10 ½	129.2	129	20	40	2.1	C	
TP-OTD1112T	23	11 1/2 141.2		141	20	40	2.3	Carbon steel	

Note: 1. Made-to-order product.

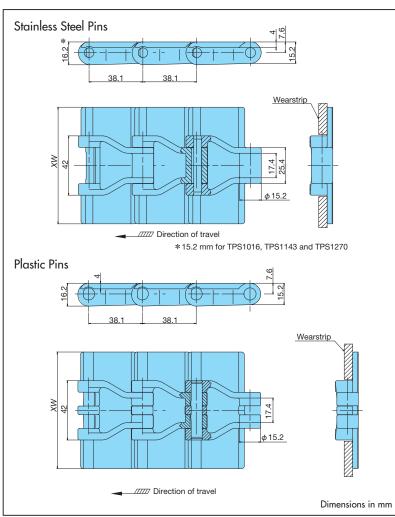
^{2.} Sprockets can also be manufactured with other number of teeth than noted above.

Plastic Top Chain TPS

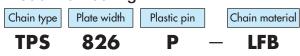
Features

- Approx. 40% higher maximum allowable load than TTP plastic top chain. Ideal for higher applied load conditions.
- Uses the same sprockets as TTUP and TPU sideflexing plastic top chains. Designed to allow common sprockets to be used.
- Models with plastic pins also available. All-plastic construction means light weight and easy handling.
 Longer service life under water lubrication than stainless steel pins.





Model Numbering



Note: Specify "P" only when pins are to be plastic.
Do not leave spaces between letters and symbols.

Connecting Pin

- 304 stainless steel D-pin Model no. TTUP-SUS-JPD
- 2. Special engineering plastic D-pin, orange Model no. TPS-PLA-JPD

Material

				Max. allowable load kN {kgf}		lowable			Stain	less stee	el pin		Plasti	ic pin	
	Material	Material	Link color	load ki	Ⅵ {kgf}	speed	m/min	Operating temperature	TPS	TPS	TPS	TPS	TPS	TPS	TPS
	Malerial	mark	LITIK COIOI	Stainless steel pin	Plastic pin			range °C	762	826	1016	1143	1270	826P	1143P
	Standard	-	Gray							•	•	•	•		
		LFW	White]				-20 to 80 (60)	0	0					
Standard	Low Friction/Anti-Wear	LFG	Green	1.18	0.98	100	50						0		0
chain		LFB	Brown	{120}	{100}	100	30	-20 10 80 (80)							
	Ultra Low Friction	ULF	Blue							0					
	Low Friction	WR	Green							A	A	A	A	A	A
	11 15 11/	KV150		0.00		-		-20 to 150						-	
He	Heat Resistant/ High Speed	KV180	Black	0.98 {100}	-	200	200	-20 to 180	\circ						
	r light opeca	KV250		[100]		200		-20 to 250			_	_	_	_	_
	High Speed	HS	Cream	-	_	-	-	_	_	_					
utali faratar	Chemical Resistant	Υ	Matte white	0.59 (60)	-	100		-20 to 80 (60)	0	0	0	0	0	A	A
High-function chain	Electroconductive	Е	Black	0.82 {84}	0.69 {70}	100		-20 10 80 (80)		A	A	A	A	0	0
chain	Impact Resistant	DIA	Cream	0.93	-	-	50	-20 to 80						-	_
	impaci kesisiani	DIY	Green	{ 95}	0.78 {80}	100		-20 to 80 (60)	\circ		0	0	0		
	Antibacterial/Mold Resistant	MWS	Cream	1.18 (120)	0.98 {100}	100		-20 10 00 (00)						0	
	Metal Detectable	MPD	Black						_					-	_
^^	Metal Detectable	MPW	- Black	_ -		_	_	_						A	A

Note: 1. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer. Standard chain length is 80 links.

2. ●: Standard product ○: Made-to-order product -: Not available

■: Special configurations may be available. Contact a Tsubaki representative for further information.

3. The plastic connecting pin is colored orange so as to distinguish it from base-chain pins (colored white).

4. Operating temperature of (60) is for using plastic-pin chain in wet conditions.

Chain (Stainless Steel Pins)

	Material	Standard	Low	Friction/Anti-W	/ear	Ultra Low Friction	Impact Resistant		Heat Resistant/ High Speed	Top plate width	Approx.
Ī	Material mark	-	LFW	LFG	LFB	ULF	DIA	DIY	KV150/180/250	XW mm	kg/m
		TPS762	TPS762-LFW	TPS762-LFG	TPS762-KV250	76.2	0.85				
		TPS826	TPS826-LFW	TPS826-LFG	TPS826-LFB	TPS826-ULF	TPS826-DIA	TPS826-DIY	TPS826-KV150 TPS826-KV180 TPS826-KV250	82.6	0.85 DIA: 0.75 DIY: 1.10
	Tsubaki model no.	TPS1016	TPS1016-LFW	TPS1016-LFG	TPS1016-LFB	TPS1016-ULF	TPS1016-DIA	TPS1016-DIY	-	101.6	1.05 DIA: 0.90 DIY: 1.30
		TPS1143	TPS1143-LFW	TPS1143-LFG	TPS1143-LFB	TPS1143-ULF	TPS1143-DIA	TPS1143-DIY	-	114.3	1.10 DIA: 0.95 DIY: 1.35
		TPS1270	TPS1270-LFW	TPS1270-LFG	TPS1270-LFB	TPS1270-ULF	TPS1270-DIA	TPS1270-DIY	-	127.0	1.20 DIA: 1.0 DIY: 1.45

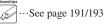
Chain (Plastic Pins)

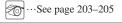
Material	Standard	Lov	v Friction/Anti-W	'ear	Ultra Low Friction	Impact Resistant	Top plate width	Approx. mass kg/m	
Material mark	-	LFW	LFW LFG LFB		ULF	DIY	7,77 11111	kg/III	
Tsubaki model no.	TPS826P	TPS826P-LFW	TPS826P-LFG	TPS826P-LFB	TPS826P-ULF	TPS826P-DIY	82.6	0.75 DIY: 0.90	
isubaki model no.	TPS1143P	TPS1143P-LFW	TPS1143P-LFG TPS1143P-LFB		TPS1143P-ULF	TPS1143P-DIY	114.3	1.00 DIY: 1.20	

Note: 1. As of January 2009, stainless steel knurled connecting pins have been changed to D-pins.

2. Knurled-pin chain and D-pin chain cannot be connected. When replacing, always replace the entire chain.







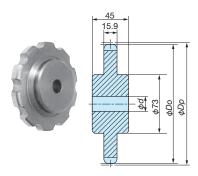
Sprockets for TPS Chain

Steel

Applicable chain

TPS, TPH, TTUP, TTUPH, TPU, TPU-LH, TPUT-LH, TPUH-BO, TTUP-M, TTUPT-M (some models can also be used with TPM or TPUM)

Sprockets (with Plain Bore)



Tsubaki	Actual	Effective	Pitch Outs		Bore diam	eter d mm	Approx.	Material
model no.	teeth	teeth	Dp mm	Do mm	Plain bore	Max.	mass kg	Maleriai
TTUP900T	-	9	111.40	111			2.0	
TTUP912T	19	91/2	117.34	117			2.1	
TTUP1000T	-	10	123.29	123			2.2	
TTUP1012T	21	101/2	129.26	130			2.4	
TTUP1100T	-	11	135.23	135	18	47	2.6	Carbon steel
TTUP1112T	23	111/2	141.22	142			2.8	31001
TTUP1200T	-	12	147.21	147			3.0	
TTUP1212T	25	121/2	153.20	154			3.2	
TTUP1300T	-	13	159.20	159			3.4	

Only TTUP1012T, TTUP1112T or TTUP1212T sprockets can be used on TPM/TPUM chain. For number of teeth other than these or for engineering plastic sprockets, contact a Tsubaki representative.

Lock Sprockets

■ Lock Sleeve Dimensions

Sleeve no.	Df diameter mm	Dc diameter mm	Bolt size M × L	Bolt tightening torque N·m
S2	42.0	32.0	M5 × 18	8.3
S3	48.5	38.5	M5 × 20	8.3
S4	56.0	46.0	M5 × 20	8.3
S5	66.0	56.0	M5 × 20	8.3

Tsubaki model no.	Actual teeth	Effective teeth	Pitch diameter Dp mm	Outside diameter Do mm	Facewidth T mm	Hub diameter Dh mm	Length L mm
TTUP900T	_	9	111.40	111			
TTUP912T	19	91/2	117.34	11 <i>7</i>			
TTUP1000T	-	10	123.29	123			
TTUP1012T	21	101/2	129.26	130			
TTUP1100T	-	11	135.23	135	15.9	73	45
TTUP1112T	23	111/2	141.22	142			
TTUP1200T	-	12	147.21	147			
TTUP1212T	25	121/2	153.20	154			
TTUP1300T	-	13	159.20	159			

■ Sleeve Combinations and Transfer Torque Values

Slee	eve no.	S2							S3		\$4			S5				
Bore diar	meter d mm	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45
Max						Λax. al	lowabl	e trans	fer torc	que N·m								
Tsubaki model no.	TTUP900T to TTUP1300T	139	149	158	167	177	186	205	167	174	195	279	298	325	442	465	586	628

Model Numbering

Chain type

Effective teeth

Bore diameter \$18

TTUP

1012T

[blank]: Plain bore S + bore diameter: Lock sprocket

Note: Do not leave spaces between letters and symbols.

Sprockets and Idler Wheels for TPS Chain

Engineering Plastic

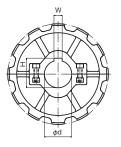
Applicable chain

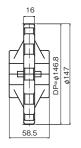
TPS, TPH, TTUP, TTUPH, TPU, TPU-LH, TPUT-LH, TPUH-BO, TTUP-M, TTUPT-M, TP-880TAB

Split Sprockets (Engineering Plastic)

Sprockets







Tsubaki	Teeth	Shaft diameter	Key	way	Approx.
model no.	iceiii	d	W	Н	kg
TP-C12400T-SPR		25	8	28.3	0.38
TP-C12711T-SPR	10	30	8	33.3	0.37
TP-C12401T-SPR	12	35	10	38.3	0.35
TP-C12402T-SPR		40	12	43.3	0.35

Note: 1. Standard product.

- 2. Operating temperature range: -20°C to 80°C
- 3. Bolt tightening torque: 6 N-m {0.61 kgf-m}
 4. When assembling the halves of the sprocket, do not mix the halves with halves from other sprockets.

 5. Cannot be used with TPM/TTUPM chain.

Specifications

(Common) Туре: Material:

Bolt: Stainless steel Nut: Brass + nickel plating Color: Black

(Sprockets)

Keyway: DIN 6885 key seat Material:

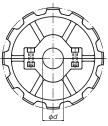
Body: Reinforced polyamide

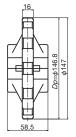
(Idler Wheels) Material:

Body: Polyamide



Idler Wheels





Tsubaki model no.	Effective teeth	Shaft diameter d	Approx. mass kg
TP-C12404T-IW	12	30	0.31

Note: 1. Standard product.

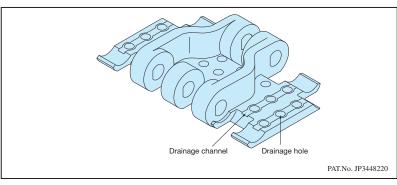
- Operating temperature range: -20°C to 80°C
 Bolt tightening torque: 6 N·m {0.61 kgf·m}
 When assembling the halves of the sprocket, do not mix the halves with halves from other consolicit. halves from other sprockets.
- 5. Cannot be used with TPM/TTUPM chain.

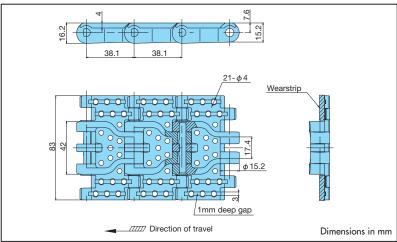
Plastic Top Chain TPH

Features

- Comb-toothed plates minimize gaps between links. Ideal for conveying unstable containers such as PET bottles and dessert cups.
- Surface of top plate is flatter and smoother. Effective in preventing container wobbling and toppling during conveyance.
- Plates are perforated with numerous drainage holes that effectively remove excess lubricant and water remaining on plate surface.
- Same basic dimensions as TPS plastic top chain. Can provide stable container conveyance simply by replacing the chain.
- Models with plastic pins also available. All-plastic construction means light weight and easy handling. Longer service life under water lubrication than stainless steel pins.







Model Numbering



Note: Specify "P" only when pins are to be plastic. Do not leave spaces between letters and symbols.

Connecting Pin

- 1. 304 stainless steel D-pin Model no. TTP-SUS-JPD
- 2. Special engineering plastic D-pin, orange Model no. TTP-PLA-JPD

Note: Same connecting pin used for TTP chain.

Material

	Material	Material mark	Link color			Max. al speed		Operating temperature	TPH830	TPH830P
		mark		Stainless steel pin	Plastic pin	With lube	No lube	range °C		
	Standard	-	Gray							
		LFW	White							
Standard	Low Friction/Anti-Wear	LFG	Green	1.18 {120}	0.78 { 80}	100	50	-20 to 80 (60)		
chain		LFB	Brown							
	Ultra Low Friction	ULF	Blue						•	•
	Low Friction	WR	Green	-	-	-	-	-	A	A
		KV150								
	Heat Resistant/ High Speed	KV180	Black							
	riigii opeed	KV250]	_	-	_	_	_	_	_
	High Speed	HS	Cream							
re L.C., e	Chemical Resistant	Υ	Matte white	0.59 { 60}	-	100				A
High-function chain	Electroconductive	Е	Black	0.82 { 84}	0.54 { 55}	100				0
chain	Impact Posistant	DIA	Cream	0.93 { 95}	-	-	50	-20 to 80 (60)	0	-
	Impact Resistant	DIY	Green	0.73 { 73}	0.64 { 65}	100				
A	Antibacterial/Mold Resistant	MWS	Cream	1.18 {120}	0.78 { 80}	100				
	Metal Detectable	MPD	Black						_	-
Me	Meiui Deleciable	MPW	DICK	_		_	_	_		A

Note: 1. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer. Standard chain length is 80 links.

2. ■: Standard product ○: Made-to-order product -: Not available

■: Special configurations may be available. Contact a Tsubaki representative for further information.

3. The connecting pin is colored orange so as to distinguish it from base-chain pins (colored white).

4. Operating temperature of (60) is for using plastic-pin chain in wet conditions.

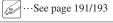
Chain (Stainless Steel Pins)

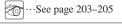
Material	Standard	Lo	w Friction/Anti-We	ear	Ultra Low Friction	Impact I	Approx.	
Material mark	-	LFW	LFG	LFB	ULF	DIA	DIY	kg/m
Tsubaki model no.	TPH830	TPH830-LFW	TPH830-LFG	TPH830-LFB	TPH830-ULF	TPH830-DIA	TPH830-DIY	1.0 DIA: 0.85 DIY: 1.20

Chain (Plastic Pins)

Material	Standard	L	ow Friction/Anti-Wed	ır	Ultra Low Friction	Impact Resistant	Approx.
Material mark	-	LFW	LFG	LFB	ULF	DIY	kg/m
Tsubaki model no.	TPH830P	TPH830P-LFW	TPH830P-LFG	TPH830P-LFB	TPH830P-ULF	TPH830P-DIY	0.75 DIY: 0.90







Plastic Top Chain TPSS

Features

- Chain is 2.3 times stronger than TTP chains. Suitable for higher load applications.
- Can handle larger and heavier products.



Model Numbering

Chain type

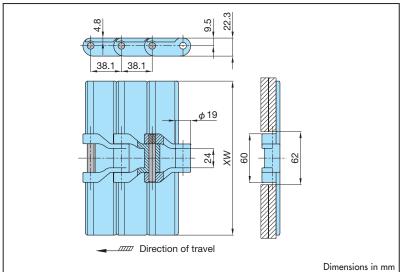
Plate width

Chain material

TPSS

1143

Note: Do not leave spaces between letters and symbols.



Material

	Material	Material mark	Link color	Max. allowable load	Max. allow m/	min '	Operating temperature	TPSS 1143	TPSS 1270	TPSS 1524	TPSS 1905
		mark		kN {kgf}	With lube	No lube	range °C	1145	12/0	1324	1703
	Standard	-	Gray				-20 to 80	•			
		LFW	White	1.96 {200}	100	50					
Standard	Low Friction/Anti-Wear	LFG	Green		100	30	-20 to 80 (65)	0	_		
chain		LFB	Brown								
	Ultra Low Friction	ULF	Blue	-	-	-	_	_	-	-	-
	Low Friction	WR	Green	1.96 {200}	100	50	-20 to 80	A	A	A	A
	Heat Resistant/ High Speed	KV150									
		KV180	Black								
		KV250									
	High Speed	HS	Cream								
re L.fe	Chemical Resistant	Υ	Matte white								
High-function chain	Electroconductive	Е	Black	_	_	_	_	-	-	-	-
chain	loon and Designation	DIA	Cream								
	Impact Resistant	DIY	Green								
<u> </u>	Antibacterial/Mold Resistant	MWS	Cream								
	Metal Detectable	MPD	Black								
	Meidi Delecidble	MPW	DICK								

1. (): Made-to-order product —: Not available — Special configurations may be available. Contact a Tsubaki representative for further information. 2. Operating temperature of (65) is for wet conditions. Note: 1. \bigcirc : Made-to-order product

3. Standard chain length is 80 links.

Chain (Stainless Steel Pins)

Material	Low Friction	/Anti-Wear	Top plate width	Approx. mass
Material mark	LFG LFB		XW mm	kg/m
	TPSS1143-LFG	TPSS1143-LFB	114.3	1.9
Tsubaki model no.	TPSS1270-LFG	TPSS1270-LFB	127.0	2.0
isubaki model no.	TPSS1524-LFG	TPSS1524-LFB	152.4	2.1
	TPSS1905-LFG	TPSS1905-LFB	190.5	2.4

Note: 1. Made-to-order product.

3. Top plate widths of 127.0mm and 152.4mm are made by trimming a 190.5mm-wide top plate.





···See page 203-205

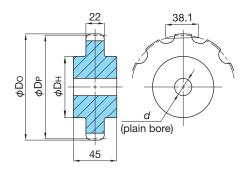
Steel

Sprockets for TPSS Chain

Applicable chain

TPSS, TTUPS, TPUS-Y-T

Steel Sprockets



Tsubaki	Teeth	Pitch diameter	Outside diameter	Hub diameter	Bore did	ımeter d	Approx. mass	Material	
model no.		D_P	Do	DH Plain bo		Max.	kg		
TPSS900T	9	114.4	111	63		35	1.9		
TPSS1000T	10	123.3	124				2.3		
TPSS1100T	11	135.2	136			40	2.7	Carbon steel	
TPSS1200T	12	147.2	149	71	20		3.1		
TPSS1300T	13	159.2	161	/1		40	3.6		
TPSS1400T	14	171.2	173				4.1		
TPSS1500T	15	183.3	186				4.6		

Note: 1. Made-to-order product.

^{2.} Sprockets can also be manufactured with other number of teeth than noted above.

Plastic Top Chain TPM

Features

- Chain pitch is approximately one-half of conventional conveyor chains, effectively lowering conveyor noise level and reducing the gap between the end of one conveyor and the start of the next conveyor.
- Type TPS sprockets (odd number of teeth) can be used. Designed to allow common sprockets to be used.
- Equipped with float-preventive tabs. Keeps the chain securely in position on corner turns and in incline/ decline sections, as well as preventing damage (scratches, etc.) to the top surface of the plates on the return way.



Model Numbering

Chain type

Plate width

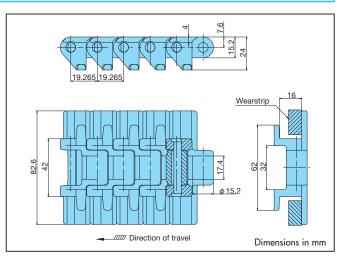
Tab

Chain material

TPM 826

LFB

Note: Do not leave spaces between letters and symbols.



Pitch (p = 19.265) has been designed for engagement with TPS sprockets (TTUP1012T; number of actual teeth is 21).

Connecting Pin

1. 304 stainless steel D-pin Model no. TTUP-SUS-JPD

Material

	Material	Material	Link color	Max. allowable load		e speed m/min	Operating	TPM
	Maleriai	mark	LITIK COIOI	kN {kgf}	With lube	No lube	temperature range °C	IF/VI
	Standard	-	Gray					
		LFW	White	1.18 {120}	100			
Standard	Low Friction/Anti-Wear	LFG	Green			50	-20 to 80	0
chain		LFB	Brown					
	Ultra Low Friction	ULF	Blue	Blue				
	Low Friction	WR	Green	-	_	_	-	A
		KV150					-	
	Heat Resistant/ High Speed	KV180	Black	-				
	riigii opeca	KV250]		_	_		_
	High Speed	HS	Cream					
re L.fe	Chemical Resistant	Υ	Matte white	0.59 { 60}	100			
High-function chain	Electroconductive	Е	Black	0.82 { 84}	100			
chain	Impact Resistant	DIA	Cream	0.93 { 95}	-	50	-20 to 80	0
	impaci kesisiani	DIY	Green	0.73 { 73}	100			
	Antibacterial/Mold Resistant	MWS	Cream	1.18 {120}	100			
	Metal Detectable	MPD	Black					<u> </u>
	Metal Detectable	MPW	DIUCK	_	_	_	_	

Note: 1. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer. Standard chain length is 160 links.

2. : Made-to-order product —: Not available

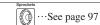
* : Special configurations may be available. Contact a Tsubaki representative for further information.

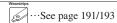
Chain (Stainless Steel Pins)

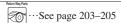
Material	Standard Low Friction/Anti-Wear				Antibacterial/Mold Resistant	Ultra Low Friction	Impact F	Resistant	
Material mark	-	- LFW LFG LFB			MWS	ULF	DIA	DIY	Approx.
Link color	Gray	White Green Brown			Cream	Blue	Cream	Green	mass
Max. allowable load kN {kgf}		1.18 {120}							kg/m
Tsubaki model no.	TPM826-T	TPM826 -T-LFW	TPM826 -T-LFG	TPM826 -T-LFB	TPM826-T-MWS	TPM826-T-ULF	TPM826 -T-DIA	TPM826 -T-DIY	1.4 DIA: 1.2 DIY: 1.7

Note: 1. Made-to-order product.

2. Plastic pins are not available.





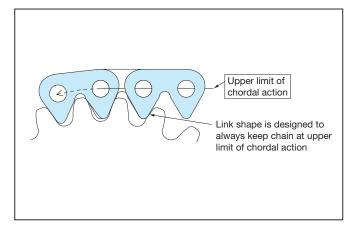


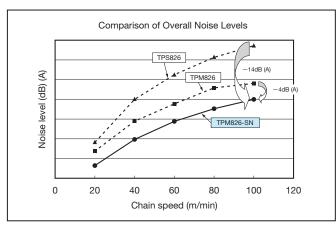
Straight Running

Plastic Top Chain TPM-SN

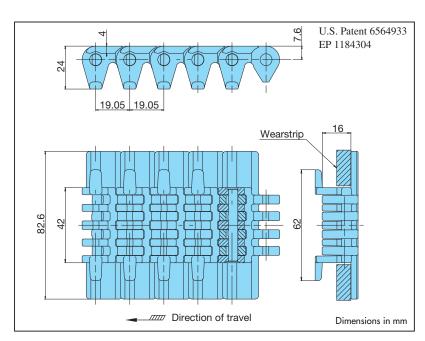
Features

- Applies the concept of silent chain engagement. Extremely effective in reducing conveyor noise.
- Uses special sprockets. Suppresses chordal action of the chain when engaging with the sprocket, enabling stable chain travel.
- Equipped with float-preventive tabs. Keeps the chain securely in position on corner turns and in incline/ decline sections, as well as preventing damage (scratches, etc.) to the top surface of the plates on the return way.

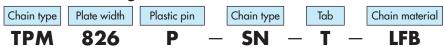








Model Numbering



Note: Specify "P" only when pins are to be plastic. Do not leave spaces between letters and symbols.

Connecting Pin

- 1. 304 stainless steel D-pin Model no. TTP-SUS-JPD
- 2. Special engineering plastic D-pin, orange Model no. TTP-PLA-JPD

Material

	Material	Material mark	Link color	Max. allow kN {		Max. al speed	lowable m/min	Operating temperature	TPM826- SN-T	TPM826P- SN-T
		mark		Stainless steel pin	Plastic pin	With lube	No lube	range °C	0.11	0111
	Standard	-	Gray							
		LFW	White							
Standard	Low Friction/Anti-Wear	LFG	Green	1.18 {120}	0.78 { 80}	100	50	-20 to 80 (60)	0	0
chain		LFB	Brown							
	Ultra Low Friction	ULF	Blue							
	Low Friction	WR	Green	_	-	_	_	_		
	Heat Resistant/ High Speed	KV150						_]	
		KV180	Black						_	-
	r light opeed	KV250		_	_	_	_			
	High Speed	HS	Cream							
re L.Ce	Chemical Resistant	Υ	Matte white	0.59 { 60}	-	100				A
High-function chain	Electroconductive	Е	Black	0.82 { 84}	0.54 { 55}	100				
chain	Impact Resistant	DIA	Cream	0.93 { 95}	-	_	50	-20 to 80 (60)		
	impaci kesisiani	DIY	Green	0.73 (73)	0.64 { 65}	100				
	Antibacterial/Mold Resistant	MWS	Cream	1.18 {120}	0.78 { 80}	100				
	Metal Detectable	MPD	Black						_	_
	Metal Detectable	MPW	DIUCK	_		_	_	_		A

Note: 1. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer. Standard chain length is 160 links.

2. ○: Made-to-order product —: Not available ▲: Special configurations may be available. Contact a Tsubaki representative for further information.

3. The connecting pin is colored orange so as to distinguish it from base-chain pins (colored white).

4. Operating temperature of (60) is for using plastic-pin chain in wet conditions.

Chain (Stainless Steel Pins)

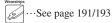
Material	Standard	Lo	w Friction/Anti-We	ear	Ultra Low Friction	Impact I	Approx. mass	
Material mark	-	LFW	LFG	LFB	ULF	DIA	DIY	kg/m
Tsubaki model no.	TPM826 -SN-T	TPM826 -SN-T-LFW	TPM826 -SN-T-LFG	TPM826 -SN-T-LFB	TPM826 -SN-T-ULF	TPM826 -SN-T-DIA	TPM826 -SN-T-DIY	1.4 DIA: 1.2 DIY: 1.7

Chain (Plastic Pins)

Material	Standard	L	ow Friction/Anti-Wed	ır	Ultra Low Friction	Impact Resistant	Approx. mass	
Material mark	_	LFW	LFG	LFB	ULF DIY		kg/m	
Tsubaki model no.	TPM826P -SN-T	TPM826P -SN-T-LFW	TPM826P -SN-T-LFG	TPM826P -SN-T-LFB	TPM826P -SN-T-ULF	TPM826P -SN-T-DIY	1.1 DIY: 1.35	

Sprockets

Use dedicated 21-tooth sprockets for TPM-SN chain.





Straight Running

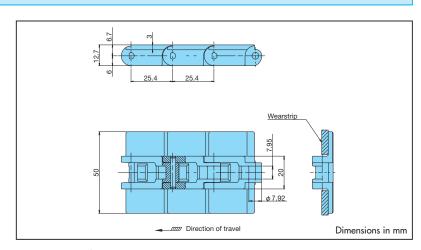
Plastic Top Chain TPRF

TPRF2040

Features

- With a plate width of 50mm and a 25.4mm pitch, this plastic top chain is ideal for conveying small objects.
- RF2040S sprockets can be used (19 teeth or more).





Model Numbering



Chain pitch

Chain material

TPRF

2040

Note: Do not leave spaces between letters and symbols.

Connecting Pin

1. 304 stainless steel D-pin Model no. RSP40-SUS-JPD

Material

	Material	Material mark	Link color	Max. allowable load kN {kgf}	Max. allowabl	e speed m/min No lube	Operating temperature range °C	TPRF2040
	Standard	-	White		60			•
		LFW	White				-20 to 80	
Standard	Low Friction/Anti-Wear	LFG	Green	0.44 {45}				0
chain		LFB	Brown					0
	Ultra Low Friction	ULF	Blue					
	Low Friction	WR	Green	-	-	-	-	A
	Heat Resistant/ High Speed	KV150					-	
		KV180	Black			_		
		KV250		_	_			_
	High Speed	HS	Cream					
re L.C. e	Chemical Resistant	Υ	Matte white	0.22 {22}	60			
High-function chain	Electroconductive	Е	Black	0.31 {31}	00			
Citain	Inner met De sintamet	DIA	Cream	0.34 {35}	-	60	-20 to 80	0
	Impact Resistant	DIY	Green	0.34 (33)	60			
	Antibacterial/Mold Resistant	MWS	Cream	0.44 {45}	00			
	Metal Detectable	MPD	Black					•
	Metal Detectable	MPW	DICK	_	_	_	_	

Note: 1. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer. Standard chain length is 120 links.

2. ●: Standard product ○: Made-to-order product -: Not available

▲: Special configurations may be available. Contact a Tsubaki representative for further information.

Chain (Stainless Steel Pins)

Material	Standard	Low	Friction/Anti-W	ear	Antibacterial/Mold Resistant	Ultra Low Friction	Impact I	Approx.	
Material mark	-	LFW	LFG	LFB	MWS	ULF	DIA	DIY	kg/m
Tsubaki model no.	TPRF2040	TPRF2040-LFW	TPRF2040-LFG	TPRF2040-LFB	TPRF2040-MWS	TPRF2040-ULF	TPRF2040-DIA	TPRF2040-DIY	0.42 DIA: 0.36 DIY: 0.52

Note: 1. Plastic pins are not available. 2. As of July 2008, knurled connecting pins have been changed to D-pins. 3. Knurled-pin chain can be connected to D-pin chain.

Sprockets

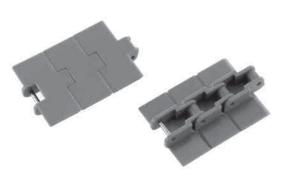
Use standard ANSI #C2040 sprockets with at least 19 teeth.

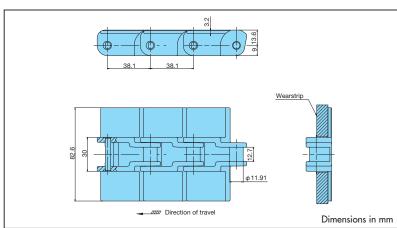


TPRF2060

Features

- Double-pitch top chain featuring wider plastic top plates for better product support.
- RF2060S sprockets can be used (19 teeth or more).





Model Numbering

Chain type

Chain pitch

Chain material

TPRF 2060 - LFB

Note: Do not leave spaces between letters and symbols.

Connecting Pin

1. 304 stainless steel D-pin Model no. RSP60-SUS-JPD

Material

	Material	Material	Link color	Max. allowable load	Max. allowabl	e speed m/min	Operating	TPRF2060
	Maleriai	mark	LITIK COIOI	kN {kgf}	With lube	No lube	temperature range °C	IFRE 2000
	Standard	-	Gray					
		LFW	White					
Standard	Low Friction/Anti-Wear	LFG	Green	0.88 {90}	6	60	-20 to 80	0
chain		LFB	Brown					
	Ultra Low Friction	ULF	Blue					
	Low Friction	WR	Green	-	_	_	-	A
		KV150					-	
	Heat Resistant/ High Speed	KV180	Black					
	r light opecu	KV250	1	_	_	_		_
	High Speed	HS	Cream					
re L C. e	Chemical Resistant	Υ	Matte white	0.44 {45}	60			
High-function chain	Electroconductive	Е	Black	0.62 (63)	80			
Chain	Impact Resistant	DIA	Cream	0.69{70}	_	60	-20 to 80	0
	impaci kesisiani	DIY	Green	0.07{/0}	60			
	Antibacterial/Mold Resistant	MWS	Cream	0.88{90}	00			
	Metal Detectable	MPD	Black			_		
	Metal Detectable	MPW	DIUCK	Black –		_	_	

Note: 1. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer. Standard chain length is 80 links.

2. ○ : Made-to-order product - : Not available ... ★ : Special configurations may be available. Contact a Tsubaki representative for further information.

Chain (Stainless Steel Pins)

Material Material mark	Standard –	Low Friction/Anti-Wear LFW LFG LFB			Antibacterial/Mold Resistant MWS	Ultra Low Friction ULF	Impact I	Resistant DIY	Approx. mass kg/m
Tsubaki model no.	TPRF2060	TPRF2060 -LFW	TPRF2060 -LFG	TPRF2060 -LFB	TPRF2060-MWS	TPRF2060-ULF	TPRF2060 -DIA	TPRF2060 -DIY	0.9 DIA: 0.7 DIY: 1.1

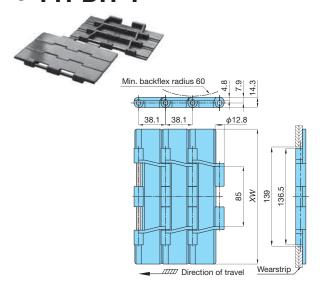
Note: 1. Made-to-order product. 2. Plastic pins are not available.

Sprockets

Use standard ANSI #C2060 sprockets with at least 19 teeth.



TTPDH-Y



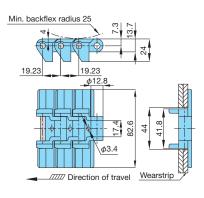
Material	Low Friction			
Material mark	WR	Top plate width	Max. allowable	Approx. mass
Link color	Green	XW	load kN{kgf}	kg/m
Connecting pin	Knurled pins			
	TTPDH1905Y-WR	190.5		2.5
Tsubaki model no.	TTPDH2540Y-WR	254.0	1.67 {170}	3.0
	TTPDH3048Y-WR	304.8		3.3

Note: 1. Made-to-order product.

2. Plastic pins are not available.

TP-YS

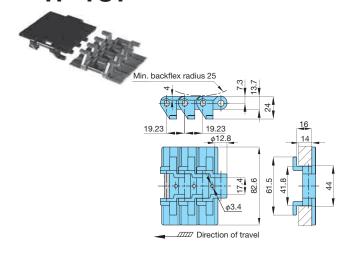




Material	Low Friction	High Speed			
Material mark	WR	HS	Top plate width	Max. allowable	Approx.
Link color	Green	Cream	width	load kN{kgf}	mass kg/m
Connecting pin	D- _k	oins			
Tsubaki model no.	TP-YS32-WR	TP-YS32-HS	82.6	0.83 {85}	1.3

Note: 1. Made-to-order product. 2. Plastic pins are not available.

TP-YST



Material	Low Friction	High Speed			
Material mark	WR	HS	Top plate	Max. allowable	Approx.
Link color	Green	Cream	width	load kN{kgf}	mass kg/m
Connecting pin	D- _k	oins			
Tsubaki model no.	TP-YST32-WR	TP-YST32-HS	82.6	0.83 {85}	1.4

Note: 1. Made-to-order product. 2. Plastic pins are not available.

Plastic Top Chain TTUP

Sideflexing

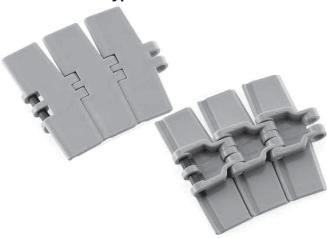
Features

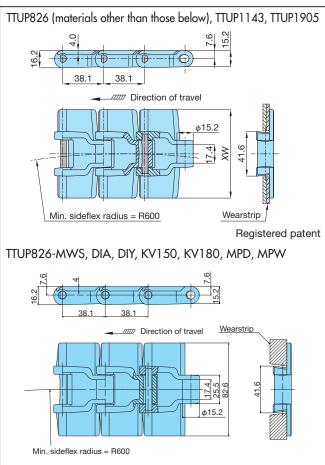
- Most popular chain series designed for use in sideflexing conveyors. Simple construction facilitates washing and clean-up.
- Uses the same sprockets as TPS and TPU plastic top chains. Designed to allow common sprockets to be used.

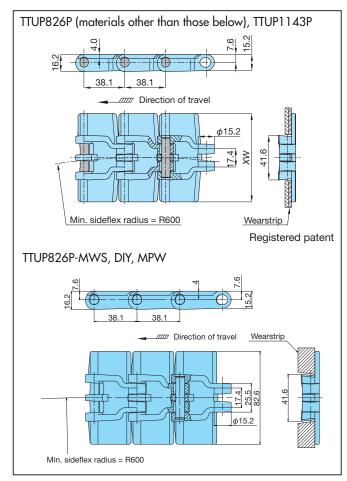
Stainless Steel Pin Type



Plastic Pin Type







Model Numbering



Note: Specify "P" only when pins are to be plastic. Do not leave spaces between letters and symbols.

Connecting Pin

- 1. 304 stainless steel D-pin Model no. TTUP-SUS-JPD
- 2. Special engineering plastic D-pin, orange Model no. TTUP-PLA-JPD

Dimensions in mm

Material

		AA 1		Max. allowal		Max. al		Operating	Stain	less stee	el pin	Plast	ic pin	
	Material	Material mark	Link color	kN {kg	f}	speed	m/min	temperature	TTUP	TTUP	TTUP	TTUP	TTUP	
		mark		Stainless steel pin	Plastic pin	With lube	No lube	range °C	826	1143	1905	826P	1143P	
	Standard	-	Gray											
		LFW	White						0	0	0	0	0	
Standard	Low Friction/Anti-Wear	LFG	Green	1.08 {110}	0.88 { 90}	100	50	-20 to 80						
chain		LFB	Brown	1.00 (110)	0.00 { 70}	100	30	(60)					•	
	Ultra Low Friction	ULF	Blue											
	Low Friction	WR	Green						•	•		•	•	
		KV150		0.98 {100}		-	200	-20 to 150	0					
	Heat Resistant/ High Speed	KV180	Black	0.76 {100}		200	200	-20 to 180						
	riigii opeca	KV250			_				_	_	_	_	-	
	High Speed	HS	Cream	_		_	_	_	_					
re L.C., e	Chemical Resistant	Υ	Matte white	0.54 { 55}	0.44 { 45}	100						A	A	
High-function chain	Electroconductive	Е	Black	0.76 { 77}	0.62 { 63}	100						0	0	
chain	Impact Resistant	DIA	Cream	0.83 { 85}	_	-		-20 to 80			0	_	-	
	impaci kesisiani	DIY	Green	0.63 { 63}	0.69 { 70}	100	50	(60)						
	Antibacterial/Mold Resistant	MWS	Cream	1.08 {110}	0.88 { 90}	100								
	Metal Detectable	MPD	Black	0.83 { 85}	-	-						-	_	
	Meiui Deleciable	MPW	DIUCK	-	0.34 { 35}	50		-20 to 60	A	A	_	0	0	

Note: 1. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer. Standard chain length is 80 links.

2. ●: Standard product ○: Made-to-order product -: Not available

■: Special configurations may be available. Contact a Tsubaki representative for further information.

3. Operating temperature of (60) is for using plastic-pin chain in wet conditions.

Chain (Stainless Steel Pins)

Material	Standard		Low Friction/Anti-Wea	r	Low Friction	Top plate width	Approx. mass	
Material mark	-	LFW	LFG	LFB	WR	XW mm	kg/m	
	TTUP826	TTUP826-LFW	TTUP826-LFG	TTUP826-LFB	TTUP826-WR	82.6	1.0	
Tsubaki model no.	TTUP1143	TTUP1143-LFW	TTUP1143-LFG	TTUP1143-LFB	TTUP1143-WR	114.3	1.1	
	TTUP1905	TTUP1905-LFW	TTUP1905-LFG	TTUP1905-LFB	TTUP1905-WR	190.5	1.6	

Material	Ultra Low Friction	Impact I	Resistant	Heat Resistant/High Speed	Top plate width	Approx. mass
Material mark	ULF	DIA	DIA DIY		XW mm	kg/m
	TTUP826-ULF	TTUP826-DIA	TTUP826-DIY	TTUP826-KV150 TTUP826-KV180	82.6	1.0 DIA: 0.85 DIY: 1.20
Tsubaki model no.	TTUP1143-ULF	TTUP1143-DIA	TTUP1143-DIY	-	114.3	1.1 DIA: 0.95 DIY: 1.35
	TTUP1 905-ULF	TTUP1905-DIA	TTUP1905-DIY	-	190.5	1.6 DIA: 1.35 DIY: 1.95

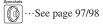
Chain (Plastic Pins)

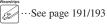
Material	Low Friction/Anti-Wear			Low Friction	Ultra Low Friction	Impact Resistant	Top plate width	Approx. mass kg/m	
Material mark	aterial mark LFW		LFB	WR	WR ULF		XW mm		
Tsubaki model no.	TTUP826P-LFW	TTUP826P-LFG	TTUP826P-LFB	TTUP826P-WR	TTUP826P-ULF	TTUP826P-DIY	82.6	0.7 DIY: 0.9	
isobaki model no.	TTUP1143P-LFW	TTUP1143P-LFG	TTUP1143P-LFB	TTUP1143P-WR	TTUP1143P-ULF	TTUP1143P-DIY	114.3	0.8 DIY: 1.05	

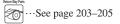
Note: 1. The plastic connecting pin is colored orange so as to distinguish it from base-chain pins (colored white).

2. As of October 2008, the shape of the TTUP826 links was changed (except for MWS [Antibacterial/Mold Resistant] series and DIA/DIY [Impact Resistant] series).

3. New chain cannot be connected to an old chain model. When replacing an old chain model, always replace the entire chain.





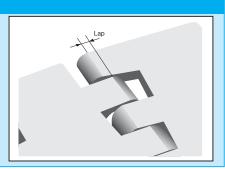


Plastic Top Chain TTUPH

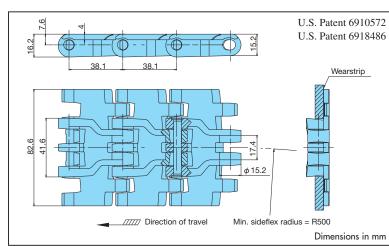
Sideflexing

Features

- Comb-toothed plates minimize gaps between links. Ideal for conveying unstable containers such as plastic bottles and dessert cups.
- Surface of top plate is flatter and smoother. Effective in preventing container wobbling and tip-over during conveyance.
- Same basic dimensions as TTUP plastic top chain. Can provide stable container conveyance simply by replacing the chain.
- Both ends of the plate are slightly chamfered, ensuring smooth lateral plate-to-plate transfers between adjacent chains.







Model Numbering

Chain type

Plate width

Chain material

TTUPH

826

ULF

Note: Do not leave spaces between letters and symbols.

Connecting Pin

1. 304 stainless steel D-pin Model no. TTUP-SUS-JPD

Material

	Material	Material	Link color	Max. allowable load	Max. allowable	e speed m/min	Operating	TTUPH
	Malerial	mark	LITIK COIOI	kN {kgf}	With lube	No lube	temperature range °C	110111
	Standard	-	Gray					
		LFW	White					0
Standard	Low Friction/Anti-Wear	LFG	Green	1.08 {110}	100	50	-20 to 80	
chain		LFB	Brown					•
	Ultra Low Friction	ULF	Blue					
	Low Friction	WR	Green	-	-	-	-	A
	II . D /	KV150						
	Heat Resistant/ High Speed	KV180	Black					
	riigii opeeu	KV250]	_	_	_	_	_
	High Speed	HS	Cream					
re L.Ce	Chemical Resistant	Υ	Matte white	0.54 { 55}	100			
High-function chain	Electroconductive	Е	Black	0.76 { 77}	100			
Chain	Impact Resistant	DIA	Cream	0.83 { 85}	-	50	-20 to 80	0
	impaci kesisiani	DIY	Green	0.63 { 63}	100			
An	Antibacterial/Mold Resistant	MWS	Cream	1.08 {110}	100			
	Motal Dotostable	MPD	Black					
	Metal Detectable	MPW	DIUCK	_	_	_	_	

Note: 1. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer. Standard chain length is 80 links.

chain length as ordered by the customer. Standard chain length is 80 links.

2. ■ : Standard product ○ : Made-to-order product - : Not available ▲ : Special configurations may be available. Contact a Tsubaki representative for further information.

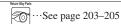
Chain (Stainless Steel Pins)

Material	Standard	Lo	w Friction/Anti-We	ar	Ultra Low Friction	Impact F	Resistant	Approx. mass
Material mark	-	LFW	LFG	LFB	ULF	DIA	DIA DIY	
Tsubaki model no.	TTUPH826	TTUPH826-LFW	TTUPH826-LFG	TTUPH826-LFB	TTUPH826-ULF	TTUPH826-DIA	TTUPH826-DIY	1.0 DIA: 0.85 DIY: 1.20

Note: Plastic pins are not available.



···See page 97/98



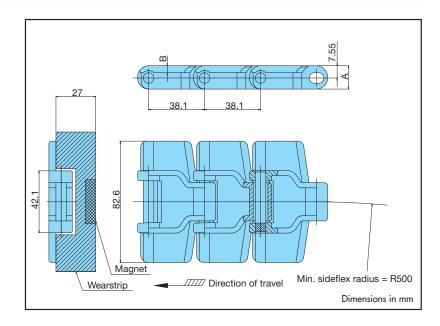
Plastic Top Chain TTUP(T)-M

Sideflexing

Features

Combining a magnetic wearstrip prevents the chain from floating in curved sections.





Model Numbering

Chain type Plate width Chain type Chain material TTUP 826

Note: Do not leave spaces between letters and symbols.

Chain (Stainless Steel Pins)

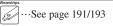
Tsubaki model no.	Link height	Plate thickness	Тор	plate	Max. allowable	Approx. mass	Operating	Max. allowabl	e speed m/min
isubaki model no.	A mm	B mm	Material	Link color	load kN {kgf}	kg/m	temperature range °C	With lube	No lube
TTUP826M-LFB	15.1	4.0	Low friction	Brown	0.00 (100)	0.98 {100} 1.05 -20 to 80 (65) 10		100	50
TTUPT826M-LFB	15.9	4.8	LOW ITICIION	DIOWII	0.70 (100)	1.15	-20 10 80 (03)	100	30

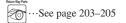
Note: 1. Standard product.

- 2. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer. Standard chain length is 80 links.

 3. Available only in LFB (Low Friction/Anti-Wear) material.
- 4. Plastic pins are not available.
- Contact a Tsubaki representative regarding magnetic corner rails.
 Operating temperature of (65) is for wet conditions.







Plastic Top Chain TTUPS

Sideflexing

Features

- Chain is 1.8 times stronger than TTUP chains. Suitable for higher load applications.
- Can handle larger and heavier products.



Model Numbering

Chain type

Plate width

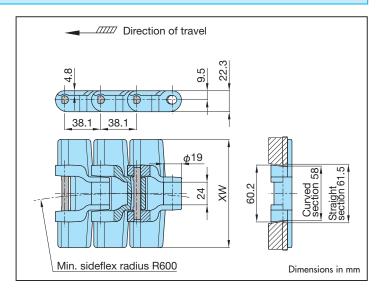
Chain material

TTUPS

1143

LFG

Note: Do not leave spaces between letters and symbols.



Material

	Material	Material mark	Link color	Max. allowable load kN {kgf}	speed		m/min temperature		TTUPS 1270	TTUPS 1524	TTUPS 1905
				, , ,	With lube	No lube	range °C	1143			
	Standard	-	Gray	1.96 {200}	90	40	-20 to 80	A	A	A	A
		LFW	White	-		-	_	_	-	-	_
olaliaala	Low Friction/Anti-Wear	LFG	Green	1.96 {200}	90	40	-20 to 80 (65)	0	0	0	0
chain		LFB	Brown	-	-	-	-	-	_	_	_
	Ultra Low Friction	ULF	Blue	1.96 {200}	90	40	-20 to 80 (65)	_			_
	Low Friction	WR	Green	1.96 {200}	90	40	-20 to 80				
		KV150									
	Heat Resistant/ High Speed	KV180	Black								
	r light speed	KV250	1	-	_	_	_	_	_	_	_
	High Speed	HS	Cream								
	Chemical Resistant	Υ	Matte white	1.57 {160}	90	40	-20 to 80				
High-function chain	Electroconductive	Е	Black	1.76 {180}	90	40	-20 to 80	_		_	
Citalii	I ID 11 I	DIA	Cream								
	Impact Resistant	DIY	Green								
	Antibacterial/Mold Resistant	MWS	Cream	_	_	_	_	_	_	_	_
	M . I D I I	MPD	Black								
٨	Metal Detectable	MPW	Black								

Note: 1. \bigcirc : Made-to-order product -: Not available \blacktriangle : Special configurations may be available. Contact a Tsubaki representative for further information. 2. Operating temperature of (65) is for wet conditions.

Chain (Stainless Steel Pins)

Material Material mark	Low Friction/Anti-Wear LFG	Plate width XW mm	Approx. mass kg/m
Malerial mark	LIG	7177	9/
	TTUPS1143-LFG	114.3	1.9
Tsubaki model no.	TTUPS1270-LFG	127.0	2.0
isubaki model no.	TTUPS1524-LFG	152.4	2.1
	TTUPS1905-LFG	190.5	2.3

Note: 1. TTUPS plastic top chain cannot be connected to UTD-S slatband chain with knurled connecting pins sold prior to June 2005. 2. Plastic pins are not available.



Sideflexina

Plastic Top Chain TTUPM-P

Features

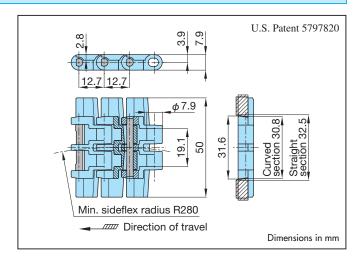
- Small chain pitch of 12.7mm is effective in lowering conveyor noise level and reducing the gap between the end of one conveyor and the start of the next conveyor.
- With a plate width of 50mm, this plastic top chain is ideal for conveying small objects.



Model Numbering



Note: Do not leave spaces between letters and symbols.



Material

	Material	Material	Link color	Max. allowable load	Max. allowable		Operating	TTUPM500P
		mark		kN {kgf}	With lube	No lube	temperature range °C	
	Standard	_	Gray	0.25 {25}	60	40	-20 to 80 (60)	A
		LFW	White	0.23 {23}	80			0
Standard	Low Friction/Anti-Wear	LFG	Green	-	-	-	-	-
chain		LFB	Brown					•
	Ultra Low Friction	ULF	Blue	0.25 {25}	60	40	-20 to 80 (60)	_
	Low Friction	WR	Green					_
	Heat Resistant/	KV150	Black					
	High Speed	KV180	ыаск					
	High Temperature/Chemical Resistant	HTW	White	-	_	_	-	-
	High Speed	HS	Cream					
re L.C., e	Chemical Resistant	Υ	Matte white					
High-function chain	Electroconductive	Е	Black	0.20 {20}	60	40	-20 to 80 (60)	A
Citalii		DIA	Cream					
	Impact Resistant	DIY	Green					
	Antibacterial/Mold Resistant	MWS	Cream	_	_	_	_	-
	M . I D I I	MPD	DI I					
	Metal Detectable	MPW	- Black					

Note: 1. ● : Standard product : Made-to-order product - : Not available

▲ : Special configurations may be available. Contact a Tsubaki representative for further information.

2. Operating temperature of (60) is for wet conditions.

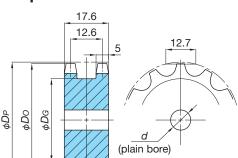
Chain (Plastic Pins)

Material	Low Friction/Anti-Wear	Plate width	Approx. mass
Material mark	LFB	mm	kg/m
Tsubaki model n	o. TTUPM500P-LFB	50	0.3

Note: 1. Standard product.

2. The plastic connecting pin is colored orange so as to distinguish it from base-chain pins (colored white).

Sprockets



Tsubaki	Teeth	Pitch diameter	Outside Groove		Bore diam	Bore diameter d mm		Material
model no.	leem	D _P mm	Do mm	D _G mm	Plain bore	Max.	mass kg	Malerial
TTUPM1100T	11	45.1	45.0	32		20	0.03	
TTUPM1300T	13	53.1	53.3	40	8	25	0.04	UHMW-PE
TTUPM1500T	15	61.1	61.4	48		30	0.05	

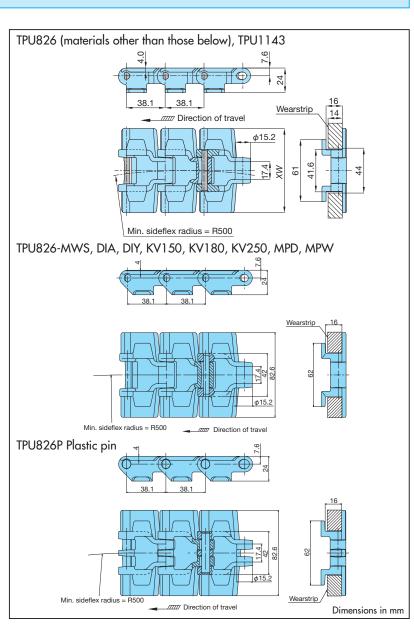
Note: 1. Made-to-order product.

 Operating temperature range is -20°C to 60°C. Use stainless steel sprockets (made-to-order product) when operating temperatures exceed 60°C.

Features

- Equipped with float-preventive tabs. Keeps the chain securely in position on corner turns and in incline/ decline sections, as well as preventing damage (scratches, etc.) to the top surface of the plates on the return way.
- Uses the same sprockets as TPS and TTUP sideflexing plastic top chains. Designed to allow common sprockets to be used.
- Models with plastic pins also available. All-plastic construction means light weight and easy handling. Longer service life under water lubrication than stainless steel pins.





Model Numbering



Note: Specify "P" only when pins are to be plastic.
Do not leave spaces between letters and symbols.

Connecting Pin

 304 stainless steel D-pin Model no. TTUP-SUS-JPD 2. Special engineering plastic D-pin, orange Model no. TPS-PLA-JPD

Material

	Material	Material mark	Link color	Max. allowa kN {kç			able speed min	Operating temperature	TPU 826-T	TPU 1143-T	TPU 826P-T
		mark		Stainless steel pin	Plastic pin	With lube	No lube	range °C	020 1	11401	0201 1
	Standard	-	Gray								
		LFW	White		0.88 {90}	100		20. 00.((0)	0	A	
Standard	Low Friction/Anti-Wear	LFG	Green				50				0
chain		LFB	Brown				30	-20 to 80 (60)			
	Ultra Low Friction	ULF	Blue	0.98 {100}						1	
	Low Friction	WR	Green								A
	Heat Resistant/ High Speed	KV150			_		-	-20 to 150	0		
		KV180	Black			200	200	-20 to 180			
		KV250]				200	-20 to 250		_	_
	High Speed	HS	Cream	-		_	_	-	-		
ue I f e	Chemical Resistant	Υ	Matte white	0.49 { 50}	0.44 {45}	100				•	
High-function chain	Electroconductive	Е	Black	0.69 { 70}	0.62 {63}	100					
Chain	Inner and Descriptoral	DIA	Cream	0.78 { 80}	-	-	50	-20 to 80 (60)			
	Impact Resistant	DIY	Green	0.76 { 60}	0.69 {70}	100					
	Antibacterial/Mold Resistant	MWS	Cream	0.98 {100}	0.88 {90}	100				_	_
	Metal Detectable	MPD	Black					-	A		
	Meidi Delectable	MPW	DIUCK	-	_	_					A

Note: 1. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer. Standard chain length is 80 links.

2. ■: Standard product ○: Made-to-order product -: Not available

■: Special configurations may be available. Contact a Tsubaki representative for further information.

3. The connecting pin is colored orange so as to distinguish it from base-chain pins (colored white).

4. Operating temperature of (60) is for using plastic-pin chain in wet conditions.

Chain (Stainless Steel Pins)

Material	Standard	Low Friction/Anti-Wear			Ultra Low Friction	Low Friction	riction Impact Resistant		Heat Resistant/ High Speed	Top plate width	Approx.
Material mark	-	LFW	LFG	LFB	ULF	WR	DIA	DIY	KV150/180/250	XW mm	mass kg/m
Tsubaki model no.	TPU826-T	TPU826- T-LFW	TPU826- T-LFG	TPU826- T-LFB	TPU826- T-ULF	TPU826- T-WR	TPU826- T-DIA	TPU826- T-DIY	TPU826-T-KV150 TPU826-T-KV180 TPU826-T-KV250	82.6	1.0 DIA: 0.85 DIY: 1.20
	TPU1143-T	TPU1143- T-LFW	TPU1143- T-LFG	TPU1143- T-LFB	TPU1143- T-ULF	TPU1143- T-WR	-	_	-	114.3	1.2

Chain (Plastic Pins)

Material		Low Friction/Anti-Wear		Ultra Low Friction	Impact Resistant	Approx. mass
Material mark	LFW	LFG	LFB	ULF	DIY	kg/m
Tsubaki model no.	TPU826P-T-LFW	TPU826P-T-LFG	TPU826P-T-LFB	TPU826P-T-ULF	TPU826P-T-DIY	0.8 DIY: 1.0

Note: 1. As of October 2008, the shape of the float-preventive tabs for stainless steel pin chains changed. Float-preventive tabs for plastic pin chains remain unchanged. 2. New chain can be connected to an old chain model.



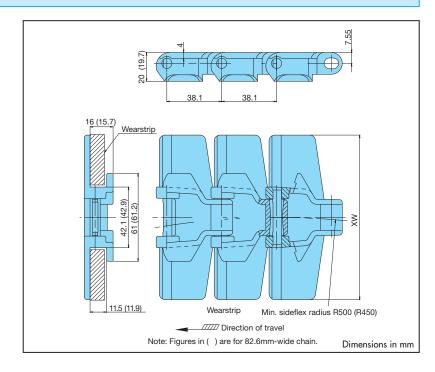
Plastic Top Chain TPU-LH

Sideflexing

Features

- Link height is lower than TPU chain, enabling more compact conveyor layouts.
- The 114.3mm plate width is wider than TPU chain, allowing it to be used to convey larger objects.





Model Numbering

(XW=82.6)

Chain type
TP-880

Tab
TAB

Plate width

- K325

Chain material

LFB

325 = 3.25 inches = 82.6mm

Note: Do not leave spaces between letters and symbols.

(XW=114.3)

Chain type

Plate width

Chain type

Tab

Chain material

PU 1143 — LH — T — LFB

Note: Do not leave spaces between letters and symbols.

Chain (Stainless Steel Pins)

Tsubaki model no.	Top plate			Max. allowable load kN {kgf}	Approx. mass	Operating temperature range °C	Max. allowable speed m/min	
	Width XW mm Material		Link color	lodd Ri i (Rgi)	kg/III	icinperatore range o	With lube	No lube
TPU1143-LH-T-LFB	114.3		Brown	0.98 {100}	0.94			
TP-880TAB-K325-LFB		Low friction	Brown			20 + 20 //5)	100	50
TP-880TAB-K325-LFG	82.6		Green	1.08 {110}	1.0	-20 to 80 (65)	100	50
TP-880TAB-K325-ULF		Ultra low friction	Blue					

Note: 1. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer. Standard chain length is 80 links.

chain length as ordered by the customer. Standard chain length is 80 links.

2. Available only in LFB (Low Friction/Anti-Wear) material (114.3mm-wide chain only).

3. Operating temperature of (65) is for wet conditions.



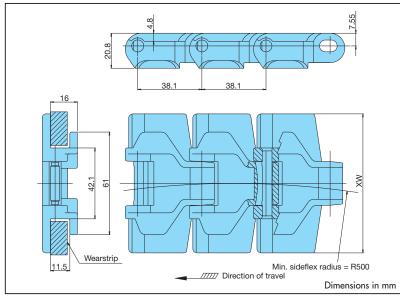
Plastic Top Chain TPUT-LH

Sideflexing

Features

- Link height is lower than TPU chain, enabling more compact conveyor layouts.
- Plate thickness (4.8mm) is thicker than TPU chain. Ideal for applications where the plates would be susceptible to wear.





Model Numbering



Note: Do not leave spaces between letters and symbols.

Chain (Stainless Steel Pins)

Tsubaki model no.	Plate width	Top plate		Max. allowable load kN {kgf}	Approx. mass			rable speed min
	XVV IIIII	Material	Link color	lodd kiv (kgi)	kg/III	lemperature range C	With lube	No lube
TPUT826-LH-T-LFB	82.6	Low friction	Brown	0.98 {100}	0.98	-20 to 80 (65)	100	50
TPUT1143-LH-T-LFB	114.3	LOW ITICIION			1.14	-20 10 80 (63)	100	30

- Note: 1. Standard product.
 2. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer. Standard chain length is 80 links.
 - 3. Available only in LFB (Low Friction/Anti-Wear) material.
 - 4. Plastic pins are not available.
 - 5. Operating temperature of (65) is for wet conditions.

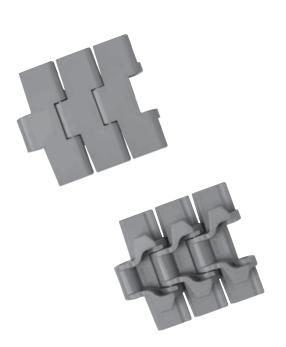


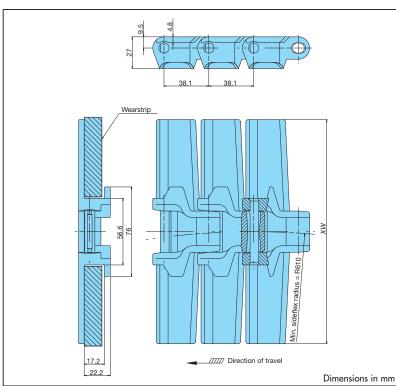
Plastic Top Chain TPUS

Sideflexing

Features

- Approx. 2.2 times higher maximum allowable load than TPU chain. Ideal for higher load applications.
- Plates are wider, and thus can be used to convey larger objects.





Model Numbering

Chain type

Plate width

Tab

Chain material

TPUS

1905

T

Note: Do not leave spaces between letters and symbols.

Chain (Stainless Steel Pins)

Tsubaki model no.	Plate width	Top plate		Max. allowable load kN {kgf}	Approx. mass kg/m	Operating temperature range °C	Max. allowable speed m/min	
	AVV IIIII	Material	Link color	lodd kin (kgi)	kg/III	l'emperatore range. C	With lube	No lube
TPUS1143-T-LFB	114.3		Brown	2.17 (220)	2.03	-20 to 80 (65)	80	50
TPUS1905-T-LFB	190.5	Low friction			2.46			
TPUS2540-T-LFB	254.0	LOW TRICTION		2.16 {220}	2.87			
TPUS3048-T-LFB	304.8			İ	3.41			

- Note: 1. Standard product.
 2. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer. Standard chain length is 80 links.
 3. Available only in LFB (Low Friction/Anti-Wear) material.
 4. Plastic pins are not available.

 - 5. Operating temperature of (65) is for wet conditions.



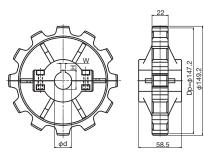
...See page 191/193

Sprockets and Idler Wheels for TPUS Chain

Applicable chain

TPUS, TPUS-LBP

Sprockets



Type: Split

Bolt: Stainless steel Material:

Nut: Brass + nickel plating

Body: Reinforced polyamide

Color: Black

Keyway: DIN 6885 key seat

Tsubaki	Teeth	Shaft diameter	Key	Approx. mass	
model no.	ieem	d	W	Н	kg
TP-C12115T-SPR	12	30	8	33.3	0.37
TP-C12117T-SPR	12	40	12	43.3	0.34

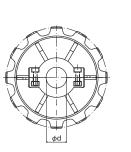


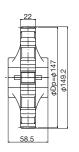
2. Operating temperature range: -20°C to 80°C

3. Bolt tightening torque: 6 N·m {0.61 kgf·m}

4. When assembling the halves of the sprocket, do not mix the halves with halves from other sprockets.

Idler Wheels





Type:	Split
Type.	Spiil

Material: Bolt: Stainless steel

Nut: Brass + nickel plating

Body: Polyamide

Color: Black

Tsubaki model no.	Teeth	Shaft diameter d	Approx. mass kg
TP-C12120T-IW	12	30	0.33
TP-C12122T-IW	12	40	0.30

Note: 1. Standard product.

- 2. Operating temperature range: -20°C to 80°C

 3. Bolt tightening torque: 6 N·m {0.61 kgf·m}

 4. When assembling the halves of the sprocket, do not mix the halves with halves from other sprockets.

Model Numbering

Top chain component Code 12115T

Sprocket or idler wheel

SPR: Sprocket IW: Idler wheel

Note: Do not leave spaces between letters and symbols.

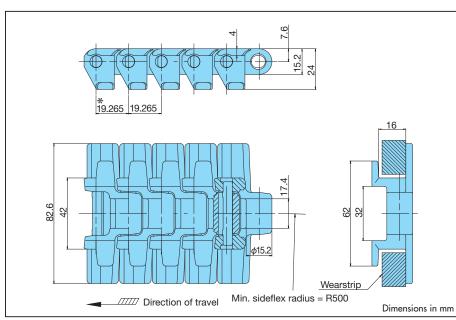
Plastic Top Chain TPUM

Sideflexing

Features

- TPUM chain series designed for use in sideflexing conveyors. Chain pitch is approximately one-half of conventional conveyor chains, effectively lowering conveyor noise level and reducing the gap between the end of one conveyor and the start of the next conveyor.
- Type TPS sprockets (odd number of teeth) can be used. Designed to allow common sprockets to be used.
- Equipped with float-preventive tabs. Keeps the chain securely in position in incline/decline sections, as well as preventing damage (scratches, etc.) to the top surface of the plates on the return way.





* Pitch (p = 19.265) has been designed for engagement with TPS sprockets (TTUP1012T; number of actual teeth is 21).

Model Numbering

Chain type

Plate width

Tab

Chain material

T **TPUM 826 LFB**

Connecting Pin

1. 304 stainless steel D-pin Model no. TTUP-SUS-JPD

Note: Do not leave spaces between letters and symbols.

Material

	Material	Material	Link color	Max. allowable load	Max. allowable	e speed m/min	Operating	TPUM
	Material	mark	LINK COIOF	kN {kgf}	With lube	No lube	temperature range °C	IPOM
	Standard	-	Gray					
		LFW	White					
Standard	Low Friction/Anti-Wear	LFG	Green	0.98 {100}	100	50	-20 to 80	0
chain		LFB	Brown					
	Ultra Low Friction	ULF	Blue					
	Low Friction	WR	Green	-	-	-	-	A
	II ID 'I I/	KV150						
	Heat Resistant/ High Speed	KV180	Black					
	r light opeca	KV250]	_	_	_	_	_
	High Speed	HS	Cream					
ne i f e	Chemical Resistant	Υ	Matte white	0.49 { 50}	100			
High-function chain	Electroconductive	Е	Black	0.69 { 70}	100			
criairi	Impact Resistant	DIA	Cream	0.78 { 80}	_	50	-20 to 80	0
	impaci kesisiani	DIY	Green	0.76 { 60}	100			
1	Antibacterial/Mold Resistant	MWS	Cream	0.98 {100}	100			
	Metal Detectable	MPD	Black					_
	Meidi Delecidble	MPW	DIUCK	_	_	_	_	_

Note: 1. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer. Standard chain length is 160 links.

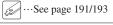
2. ○ : Made-to-order product —: Not available — : Special configurations may be available. Contact a Tsubaki representative for further information.

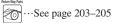
Chain (Stainless Steel Pins)

Material	Standard	Lo	w Friction/Anti-We	ear	Antibacterial/ Mold Resistant			Impact Resistant		
Material mark	_	LFW	LFG	LFB	MWS	ULF	DIA	DIY	kg/m	
Tsubaki model no.	TPUM826-T	TPUM826-T-LFW	TPUM826-T-LFG	TPUM826-T-LFB	TPUM826-T- MWS	TPUM826-T-ULF	TPUM826-T-DIA	TPUM826-T-DIY	1.4 DIA: 1.2 DIY: 1.7	

Note: Plastic pins are not available.







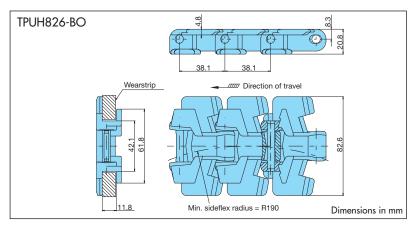
Plastic Top Chain TPUH-BO

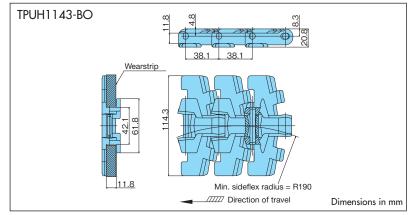
Sideflexing

Features

- Sideflex radius is smaller (190mm) than TTUP or TPU chain, enabling more compact conveyor layouts.
- Comb-toothed plates minimize gaps between links. Ideal for conveying unstable containers such as dessert







Model Numbering

Chain type

Plate width

Chain type

Tab

Chain material

TPUH

826

LFB

Note: Do not leave spaces between letters and symbols.

Chain (Stainless Steel Pins)

Tsubaki model no.	Plate width	Top plate		Max. allowable load kN {kaf}	Approx. mass	Operating temperature range °C	Max. allowable speed m/min	
	XVV IIIIII	Material	Link color	lodd kin (kgi)	kg/III	lemperature range C	With lube	No lube
TPUH826-BO-T-LFB	82.6	Low friction	Brown	0.98 {100}	1.08	-20 to 80 (65)	100	50
TPUH1143-BO-T-LFB	114.3	LOW ITICIION	DIOWII	0.78 (100)	1.20	-20 10 80 (03)	100	

Note: 1. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer. Standard chain length is 80 links. 2. Available only in LFB (Low Friction/Anti-Wear) material.

3. Plastic pins are not available

4. Operating temperature of (65) is for wet conditions.

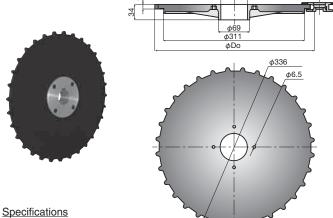


Sprockets and Corner Discs for TPUH-BO Chain

Applicable chain

TPUH-BO

Horizontal Sprockets



Hubs

Tsubaki model no.	Teeth	Outside diameter Do
TP-C12781LT-SPR	32	352

Engineering Plastic

- Note: 1. For applications other than horizontal conveyance, use sprockets for TPS chains. See page 97.98

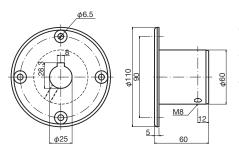
 2. Do not use to convey unstable containers. They may wobble and tip over
 - during conveyance.
 - 3. Must be used together with TP-C12773T-HB hub.

Sprocket Material: Polyamide (black)

Hub Material: Aluminum

Note: Hub and sprocket

must be used together.



Tsubaki model no. TP-C12773T-HB

1. Must be used together with TP-C12781LT-SPR sprocket

- 2. Four sets of M6 mounting bolts and nuts (stainless steel) are included.
 - 3. Contact a Tsubaki representative if different shaft diameters are required.

Corner Discs

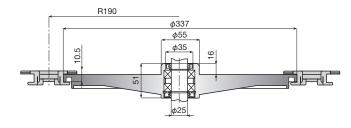
Carry Way

Tsubaki model no.: TP-C12779T-CD

R190 φ337

○ Return Way

Tsubaki model no.: TP-C12777T-CD



Model Numbering

Top chain component Code Corner disc 12779T -CD

Note: Do not leave spaces between letters and symbols.

· Main body material : Polyamide (black)

 Bearing : Type 6005-2RS (25 x 47 x 12)

· O-ring seal : NBR

: 25mm diameter (DIN 471) Retaining ring

 Approx. mass : 0.98 kg/disc Chain sideflex radius : 190mm • Operating temperature range: -20°C to 60°C

• Not recommended for conveying unstable containers.

· Carry-way and return-way corner discs differ only in whether the shaft extends through the disc.

• Bearings and O-ring seals are packaged separately and shipped in the same container as the disc unit.

Dimensions in mm

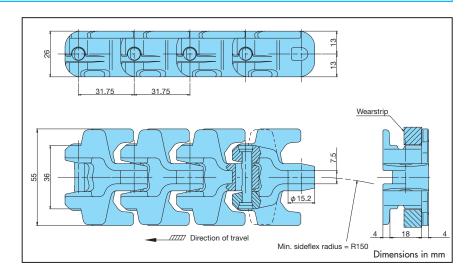
Plastic Top Chain TPUSR550

Sideflexing

Features

- Small sideflex radius (150mm) provides more flexibility in the layout of conveyor lines. Ideal for conveyance in tight spaces.
- Uses comb-toothed plates. Ideal for conveying unstable containers such as plastic bottles, dessert cups, and paper packs.
- Curved sections use corner discs, suppressing the occurrence of wear dust and creaking/squealing noises.
- Equipped with float-preventive tabs. Keeps the chain securely in position on corner turns and in incline/ decline sections, as well as preventing damage (scratches, etc.) to the top surface of the plates on the return way.





Connecting Pin

1. 304 stainless steel D-pin Model no. TPUSR-SUS-JPD

Material

	Material	Material	Link color	Max. allowable load		e speed m/min	Operating	TPUSR550-T	
		mark		kN {kgf}	With lube	No lube	temperature range °C		
	Standard	_	Gray						
		LFW	White						
Standard	Low Friction/Anti-Wear	LFG	Green	0.98 {100}	100	50	-20 to 80	0	
chain		LFB	Brown						
	Ultra Low Friction	ULF	Blue						
	Low Friction	WR	Green	-	-	-	-	A	
		KV150							
	Heat Resistant/ High Speed	KV180	Black						
	r light opecu	KV250]	_	_	_	_	_	
	High Speed	HS	Cream						
re L Ce	Chemical Resistant	Υ	Matte white	0.49 { 50}	100				
High-function chain	Electroconductive	Е	Black	0.69 { 70}	100				
Cildiii	Income the Contract	DIA	Cream	0 4 4 [45]	-	50	-20 to 80	0	
	Impact Resistant	DIY	Green	0.64 { 65}	100				
	Antibacterial/Mold Resistant	MWS	Cream	0.98 {100}	100				
	Metal Detectable	MPD	Black						
	Meidi Delecidble	MPW	DICK	_	_	_	_	_	

Note: 1. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer. Standard chain length is 96 links.

2. : Made-to-order product —: Not available

\$\times\$: Special configurations may be available. Contact a Tsubaki representative for further information.

Chain (Stainless Steel Pins)

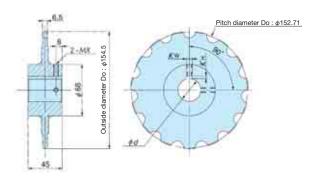
Material	Standard	Lo	ow Friction/Anti-Wed	ar	Ultra Low Friction	Impact F	Impact Resistant	
Material mark	-	LFW	LFG	LFB	ULF	DIA	DIY	kg/m
Tsubaki model no.	TPUSR550-T	TPUSR550-T-LFW	TPUSR550-T-LFG	TPUSR550-T-LFB	TPUSR550-T-ULF	TPUSR550-T-DIA	TPUSR550-T-DIY	1.0 DIA: 0.85 DIY: 1.20

Note: Plastic pins are not available.



Sprockets and Corner Discs for TPUSR550 Chain

Sprockets (with Plain Bore) for TPUSR550-T & TPUSR826-T



Note: For sprockets made from different materials or having numbers of teeth other than those described above, contact a Tsubaki representative.

T 1 1:			Bore di	ameter	Finished bore	Approx.	
Tsubaki model no.	Material	Teeth	Plain bore	Max.	diameter (tolerance H7)	mass kg	
TPUSR1500T	TPUSR1500T Carbon steel (teeth) SS400 (hub)		15.9	45	20 · 25 · 30 35 · 40 · 45	2.0	
TPUSR1500T-SS	PUSR1500T-SS Stainless steel				00 40 40		

Pitch

diameter

Do mm

152.71

Actual

teeth

15

Outside

diameter

Do mm

154.5

Facewidth

 $T\,\mathrm{mm}$

Hub

diamete

Dh mm

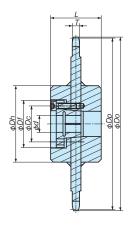
PAT No. JP3398110

Length

45

Applicable bore diameter	Keyway width <i>Kw</i>	Keyway height <i>Кн</i>	Set screw MX
Greater than 17 to 22	6	2.8	M6
Greater than 22 to 30	8		////
Greater than 30 to 38	10	3.3	
Greater than 38 to 42	12		M8
Greater than 42 to 50	14	3.8	

Lock Sprockets



■ Lock Sleeve Dimensions

Sleeve no.	Df diameter mm	<i>Dc</i> diameter mm	Bolt size M x L	Bolt tightening torque N·m
S2	42	32	M5×18	8.3
\$3	48.5	38.5	M5×20	8.3
\$4	56	46	M5×20	8.3

■ Sleeve Combinations and Transfer Torque Values

Sleeve no.		\$2						S3			S4		
Bore diameter d mm	15	16	17	18	19	20	22	24	25	28	30	32	35
Tsubaki model no.		Max. allowable transfer torque N⋅m											
TPUSR1500T	139	149	158	167	177	186	205	167	174	195	279	298	325

Tsubaki

model no.

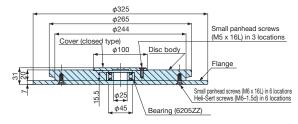
TPUSR1500T

Note: Available only in steel.

Corner Discs

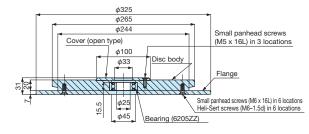
○ Carry Way

Tsubaki model no.: TPUSR550-CD-R150C



Return Way

Tsubaki model no.: TPUSR550-CD-R150R



- Disc body
 Ultra-high molecular weight polyethylene (white)
 Flange
 Ultra-high molecular weight polyethylene (white)
- Cover : Ultra-high molecular weight polyethylene (white)
- Panhead screw : Stainless steel
 Approx. mass : 1.0 kg/disc
 Chain sideflex radius R = 150mm
- Contact a Tsubaki representative if dimensions, bearings, or materials other than those shown in the drawing are required.
- Operating temperature range : −20°C to 60°C
- Recommended for use in dry environments. Stainless steel bearings are also available for use in wet environments where there is exposure to water.

Dimensions in mm

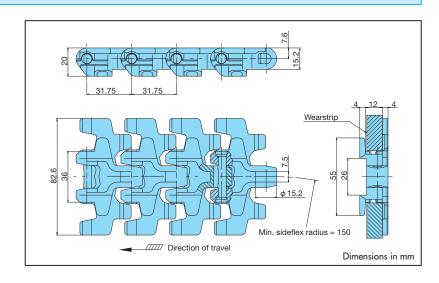
Plastic Top Chain TPUSR826

Sideflexing

Features

- Small sideflex radius (150mm) provides more flexibility in the layout of conveyor lines. Ideal for conveyance in tight spaces.
- Uses comb-toothed plates. Ideal for conveying unstable containers such as plastic bottles, dessert cups, and paper packs.
- Curved sections use corner discs, suppressing the occurrence of wear dust and creaking/squealing noises.
- Equipped with float-preventive tabs. Keeps the chain securely in position on corner turns and in incline/ decline sections, as well as preventing damage (scratches, etc.) to the top surface of the plates on the return way.





Connecting Pin

1. 304 stainless steel D-pin Model no. TPUSR-SUS-JPD

Material

	Material	Material	Link color	Max. allowable load	Max. allowable	e speed m/min	Operating	TPUSR826-T
	Maleriai	mark	LITIK COIOI	kN {kgf}	With lube	No lube	temperature range °C	1FU3K020-1
	Standard	-	Gray					0
		LFW	White					
Standard	Low Friction/Anti-Wear	LFG	Green	0.98 {100}	100	50	-20 to 80	
chain		LFB	Brown					•
	Ultra Low Friction	ULF	Blue					
	Low Friction	WR	Green	_	_	_	-	A
	II .D :/	KV150						
	Heat Resistant/ High Speed	KV180	Black		_			
	_ ·	KV250		-	_	_	_	_
	High Speed	HS	Cream					
re L.Ce	Chemical Resistant	Υ	Matte white	0.49 { 50}	100			
High-function chain	Electroconductive	Е	Black	0.69 { 70}	100			
Chain	Impact Resistant	DIA	Cream	0.64 { 65}	_	50	-20 to 80	0
	impaci kesisiani	DIY	Green	0.04 (0.03)	100			
	Antibacterial/Mold Resistant	MWS	Cream	0.98 {100}	100			
	Metal Detectable	MPD	Black	_		_	_	_
	Meiai Deleciable	MPW	DidCk					

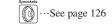
Note: 1. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer. Standard chain length is 96 links.

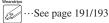
2. ●: Standard product ○: Made-to-order product -: Not available ▲: Special configurations may be available. Contact a Tsubaki representative for further information.

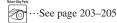
Chain (Stainless Steel Pins)

Material	Standard	Low Friction/Anti-Wear Ultra Low Friction Impact Resistant					Top plate	Approx.	
Material mark	-	LFW	LFG	LFB	ULF	DIA	DIY	widin	kg/m
Tsubaki model no.	TPUSR826-T	TPUSR826-T-LFW	TPUSR826-T-LFG	TPUSR826-T-LFB	TPUSR826-T-ULF	TPUSR826-T-DIA	TPUSR826-T-DIY	82.6	0.9 DIA: 0.75 DIY: 1.10

Note: Plastic pins are not available.





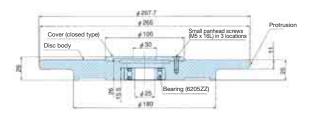


Corner Discs for TPUSR826 Chain

Corner Discs

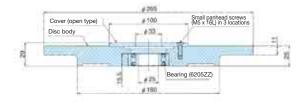
○ Carry Way

Tsubaki model no.: TPUSR826-CD-R150C



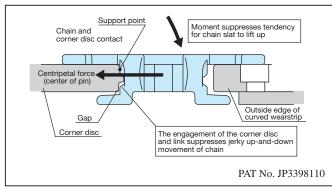
O Return Way

Tsubaki model no.: TPUSR826-CD-R150R



Mechanism to Prevent Chain Lifting while Cornering

Engineering Plastic



Contact a Tsubaki representative for further information.

• Disc body : Ultra-high molecular weight polyethylene (green)

• Cover : Ultra-high molecular weight polyethylene (green)

Panhead screw : Stainless steel
Approx. mass : 1.0 kg/disc
Chain sideflex radius R = 150mm

 Contact a Tsubaki representative if dimensions, bearings, or materials other than those shown in the drawing are required.

• Operating temperature range : -20°C to 60°C

 Recommended for use in dry environments. Stainless steel bearings are also available for use in wet environments where there is exposure to water.

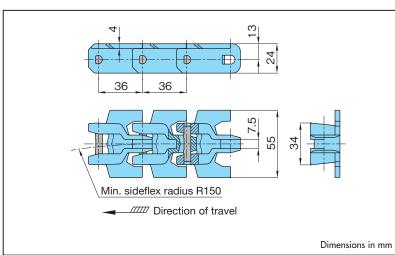
Plastic Top Chain TP-UB36

Sideflexing

Features

- Small sideflex radius (150mm) provides more flexibility in the layout of conveyor lines. Ideal for conveyance in tight spaces.
- Comb-toothed plates minimize gaps between links.
- Curved sections use turn discs, suppressing the occurrence of wear dust and creaking/squealing noises.





Model Numbering

Chain type

Chain material

TP-UB36

ULF

Note: Do not leave spaces between letters and symbols.

Material

	Material	Material mark	Link color	Max. allowable load kN {kgf}	Max. allowable With lube	e speed m/min No lube	Operating temperature range °C	TP-UB36
	Standard	_	Gray	(0)	7711111000	. 10 1000	-20 to 80	
		LFW	White	0.9 {91}			00 : 00 (/5)	
Standard	Low Friction/Anti-Wear	LFG	Green		100	50		A
chain		LFB	Brown				-20 to 80 (65)	
	Ultra Low Friction	ULF	Blue					•
	Low Friction	WR	Green	-	_	_	-20 to 80	A
		KV150		-				
	Heat Resistant/ High Speed	KV180	Black					
		KV250	1			_	-	
	High Temperature/Chemical Resistant	HTW	White					_
	High Speed	HS	Cream					
High-function	Chemical Resistant	Υ	Matte white					
chain	Electroconductive	Е	Black	0.7 {71}	100	50	-20 to 80	A
	I ID : I	DIA	Cream					
	Impact Resistant	DIY	Green					
	Antibacterial/Mold Resistant	MWS	Cream	-	_	_	_	_
	Metal Detectable	MPD	Black					
		MPW	DICK					

Note: 1. • : Standard product — : Not available • : Special configurations may be available. Contact a Tsubaki representative for further information. 2. Operating temperature of (65) is for wet conditions.

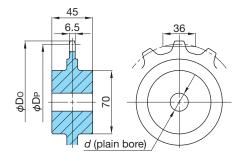
Chain (Stainless Steel Pins)

Material	Ultra Low Friction	Approx. mass	Pin material
Material mark	ULF	kg/m	
Tsubaki model no.	TP-UB36-ULF	1.0	Stainless steel

Note: Plastic pins are not available.

Sprockets, Idler Wheels, and Turn Discs for TP-UB36 Chain

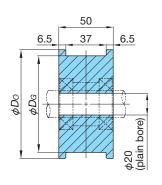
Steel Sprockets



Tsubaki model no.	Teeth	Pitch diameter D _P	Outside diameter DO	Bore did Plain bore	meter d	Approx. mass kg	Material
TP-UB1100T	11	127.8	135			1.8	
TP-UB1200T	12	139.1	147	20	40	2.0	Carbon steel
TP-UB1300T	13	150.4	159			2.5	

Note: Made-to-order product.

Engineering Plastic Idler Wheels



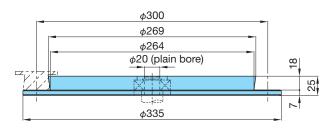
Tsubaki model no.	Equivalent no. of teeth	Do	DG	Approx. mass kg	Material
 TP-IW36UB1100T	11	112	100	0.4	
TP-IW36UB1200T	12	124	112	0.5	UHMW-PE
TP-IW36UB1300T	13	136	124	0.6	

Note: 1. Made-to-order product.

2. Operating temperature range is -20°C to 60°C.

Turn Discs for TP-UB36 Chain (Machined)

TP-UB36TW-D (carry way)



TP-UB36TW-R (return way)



Tsubaki model no.	Material	Material grade	Color	Remarks
TP-UB36TW-D	UHMW-PE	UHMW-PE 10-100		Carry way
TP-UB36TW-R	OFI/V(VV-FL	10-100	White	Return way

Note: 1. Made-to-order product.

2. Discs with integral bearings can also be manufactured upon request.

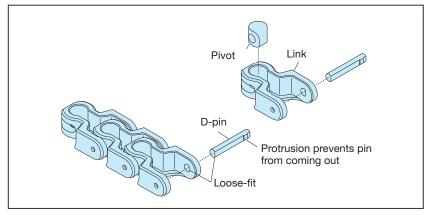
Plastic Universal Chain TPUN

Sideflexing

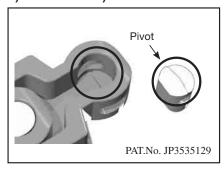
Features

- Small sideflex radius (140mm) provides more flexibility in the layout of conveyor lines. Ideal for conveyance in tight spaces.
- Approx. 1.8 times higher maximum allowable load than TTUP chain. Ideal for higher load applications.
- Uses D-pins that protrude from one side only, preventing poor articulation.
- Pivot misassembly prevention system prevents faulty engagement of the chain and sprocket by eliminating mistakes in the direction of pivot insertion.
- Gap between links is minimized, ensuring smooth conveyance around horizontal curves. Provides stable transport of conveyed goods.

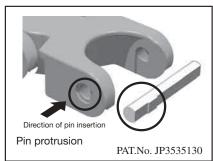


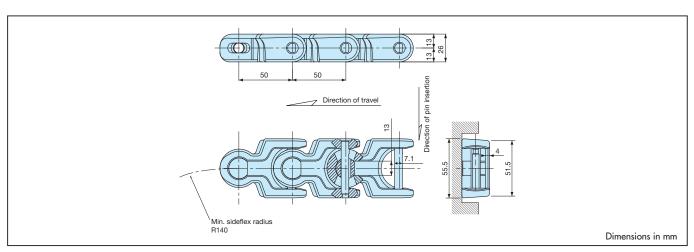


Misassembly Prevention System



Pin Shape





Model Numbering

Chain type

Plate width

Chain material

TPUN

555

LFR

Note: Do not leave spaces between letters and symbols.

Connecting Pin

Only special D-pins for TPUN chain can be used.

Material

	Material	Material	Link color	Max. allowable load	Max. allowable speed m/min		Operating	TPUN555
	Material	mark	LINK COIOF	kN {kgf}	With lube	No lube	temperature range °C	IPUNSSS
	Standard	-	Green					
	Sidridara	W	White					
cı I I		LFW	White					0
Standard chain	Low Friction/Anti-Wear	LFG	Green	1.96 {200}	3	5	-20 to 80	•
Chain		LFB	Brown					
	Ultra Low Friction	ULF	Blue					
	Low Friction	WR	Green					A
	Heat Resistant/ High Speed	KV150		_				
		KV180	Black				-	
		KV250				_		-
	High Speed	HS	Cream					
re L.fe	Chemical Resistant	Υ	Matte white					
High-function chain	Electroconductive	Е	Black	1.37 {140}	3	5	-20 to 80	0
chair	Impact Resistant	DIA	Cream					
	impaci kesisiani	DIY	Green	-	_	_	_	_
	Antibacterial/Mold Resistant	MWS	Cream	1.96 {200}	3	5	-20 to 80	0
	Metal Detectable	MPD	Black					
	Meidi Delecidble	MPW	DIUCK	_	_	_	-	

Note: 1. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer. Standard chain length is 60 links.

2. ●: Standard product ○: Made-to-order product -: Not available

▲: Special configurations may be available. Contact a Tsubaki representative for further information.

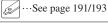
Chain (Stainless Steel Pins)

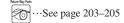
	Material	Stan	Standard		Low Friction/Anti-Wear			Approx. mass
	Material mark	-	W	LFW	LFG	LFB	ULF	kg/m
_	Tsubaki model no.	TPUN555	TPUN555-W	TPUN555-LFW	TPUN555-LFG	TPUN555-LFB	TPUN555-ULF	1.45

Note: Plastic pins are not available.



···See page 133/134





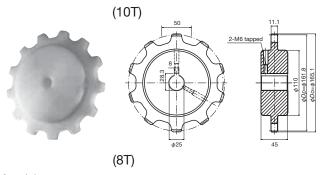
Sprockets and Idler Wheels for TPUN Chain

Engineering Plastic

Applicable chain

TPUN555, TPUN550-LH, TPUN535-LH, TP-50UNS, TP-50UNS-D76

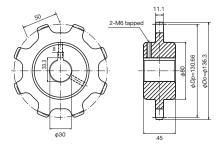
Sprockets



Tsubaki model no.	Teeth	Туре	Approx. mass kg
TP-C213961T-SPR	10	Solid	0.44

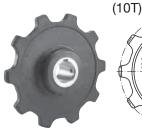
Note: Standard product.

Material: Body: Polyamide (white)

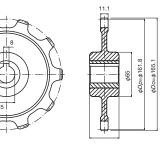


Tsubaki model no.	Teeth	Туре	Approx. mass kg
TP-C213959T-SPR	8	Solid	0.29

Note: Standard product.



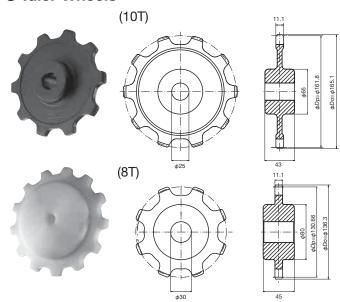




Tsubaki model no.	Teeth	Туре	Approx. mass kg
TP-C12721T-SPR	10	Solid	0.5

Note: Standard product.

Idler Wheels



Material: Polyamide (black)

Tsubaki model no.	Teeth	Туре	Approx. mass kg
TP-C12724T-IW	10	Solid	0.24

Note: Standard product.

Material: Polyamide (white)

Tsubaki model no.	Teeth	Туре	Approx. mass kg
TP-C12737T-IW	8	Solid	0.29

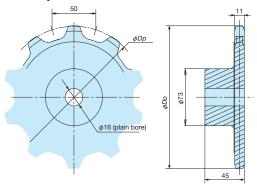
Note: Standard product.

Sprockets and Corner Discs for TPUN Chain

Applicable chain

TPUN555, TPUN550-LH, TPUN535-LH, TP-50UNS, TP-50UNS-D76

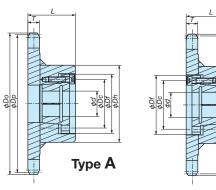
Steel Sprockets (with Plain Bore)

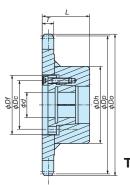


Tsubaki model no.	Material	Construction	Effective teeth	Pitch diameter <i>Dp</i> mm	Outside diameter <i>Do</i> mm	Approx. mass kg
TPUN555-800T	Carbon steel	Machined	8	130.7	134	1.9
TPUN555-1000T	Carbon sieer	Machinea	10	161.8	163	2.7
TPUN555-1200T	Carbon steel (teeth), SS400 (hub)	Welded	12	193.2	198	3.1

Note: For sprockets made from different materials or having numbers of teeth other than those described above, contact a Tsubaki representative.

Steel Lock Sprockets





Type B

Lock Sleeve Dimensions

Sleeve no.	Df diameter mm	Dc diameter mm	Bolt size M x L	Bolt tightening torque N·m
S2	42.0	32.0	M5×18	8.3
\$3	48.5	38.5	M5×20	8.3
S4	56.0	46.0	M5×20	8.3
S5	66.0	56.0	M5×22	8.3

Tsubaki model no.	Actual teeth	Pitch diameter <i>Dp</i> mm	Outside diameter Do mm	Facewidth T mm	Hub diameter <i>Dh</i> mm	Length L mm
TPUN555-800T	8	130.7	134			
TPUN555-1000T	10	161.8	163	8.8	73	45
TPUN555-1200T	12	193.2	198			

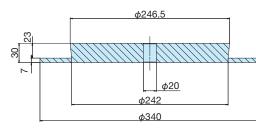
Sleeve Combinations and Transfer Torque Values

Sleeve no.		\$2							S3			S4			S	5	
Bore diameter d mm	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45
Tsubaki model no.		Max. allowable transfer torque N⋅m															
TPUN555-800T	139	149	158	167	177	186	205										
TPUN555-1000T	174	186	198	209	221	232	256	167	174	195	279	298	325	442	465	586	628
TPUN555-1200T	1/4	100	170	207	221	232	230										

Corner Discs (for TPUN555 only)

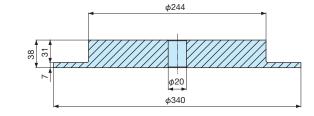
○ Carry Way

Tsubaki model no.: TPUN555-CD-R150C



Return Way

Tsubaki model no.: TPUN555-CD-R150R



- Disc body: Ultra-high molecular weight polyethylene (white)
- Approx. mass: 2.1 kg/disc
- Chain sideflex radius R = 150mm
- · Contact a Tsubaki representative if dimensions, bearings, or materials other than those shown in the drawing above are required.
- Made-to-order product
- Operating temperature range: -20°C to 60°C
- As of September 2010, the thickness of carry-way corner discs was changed to 30mm (previously 38mm).

Dimensions in mm

Plastic Universal Chain TPUN-LH

Sideflexing

Features

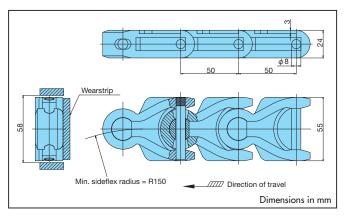
- Small sideflex radius (150mm) enables more compact conveyor layouts.
- This series features the link height often seen in overseas markets. Link height is slightly lower than TPUN

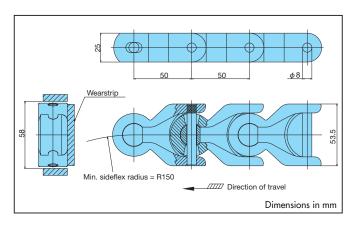
TPUN550-LH



TPUN535-LH







Model Numbering

Chain type

Plate width

Chain type

TPUN

550

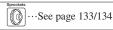
Note: 1. Do not leave spaces between letters and symbols.
2. TPUN550-LFB and TPUN535-LFW are also available. Contact a Tsubaki representative for further information.

Chain (Stainless Steel Pins)

Material	Tsubaki	Link height	Top plate		Max. allowable	Approx.	Operating temperature range °C	Max. allowable speed m/min	
model no.	mm	Material	Link color	load kN {kgf}	mass kg/m	With lube		No lube	
Standard	TPUN550-LH	24.0	Polyacetal	Gray	1.96 {200}	1.25	-20 to 80 (65)	35	35
TPUN5	TPUN535-LH	25.0	Folyaceiai			1.40			

Note: 1. Standard product.

- Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer. Standard chain length is 61 links.
 Plastic pins are not available.
- 4. Operating temperature of (65) is for wet conditions.

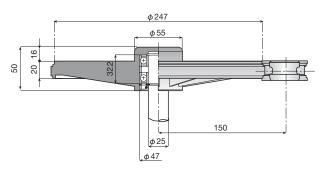




···See page 191/193

Corner Discs

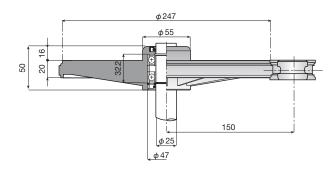
○ Carry Way



Tsubaki model no.	Mat	erial	Chain aidallay radius	Color
	Body	Shaft bearing	Chain sideflex radius	Color
TP-C12723T-CD	Reinforced polyamide	Steel	R150	Black

Note: Bearings and O-ring seals are packaged separately and shipped in the same container as the disc unit.

○ Return Way



Tsubaki model no.	Mat	erial	Chain sideflex radius	Color
	Body	Shaft bearing	Chain sidellex radius	Color
TP-C12725T-CD	Reinforced polyamide	Steel	R150	Black

Note: 1. Carry-way and return-way corner discs differ only in whether the shaft extends through the disc.

2. Bearings and O-ring seals are packaged separately and shipped in the same container as the disc unit.

Model Numbering



Note: Do not leave spaces between letters and symbols.

Plastic Universal Chain TP-50UNS

Sideflexing

Features

- Small sideflex radius (150mm) provides more flexibility in the layout of conveyor lines. Ideal for conveyance in tight spaces.
- Chain has a higher strength, which makes it suitable for high load applications.



Model Numbering

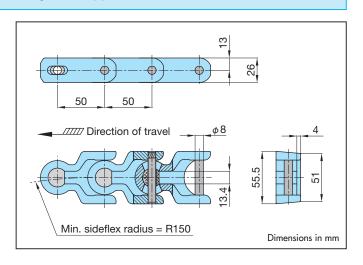
Chain type

Chain material

TP-50UNS -

For Standard chain, leave "Chain material" blank.

Note: Do not leave spaces between letters and symbols.



Material

	Material	Material mark	Link color	Max. allowable load kN {kgf}	Max. allowable With lube	e speed m/min No lube	Operating temperature range °C	TP-50UNS
	Standard	-	Green					•
		LFW	White	1.96 {200}	35	35	-20 to 80 (65)	
Standard Low Friction/Anti-Wear	LFG	Green	1.90 {200}	35	35	-20 10 60 (63)	A	
chain		LFB	Brown					
	Ultra Low Friction	ULF	Blue	-	-	-	-	-
	Low Friction	WR	Green	1.96 {200}	35	35	-20 to 80 (65)	A
H/	KV150							
	Heat Resistant/ High Speed	KV180	Black					
	r light Speed	KV250	1					
	Chemical Resistant	Υ	Matte white					
High-function	Electroconductive	Е	Black					
chain	Inner met De sintanet	DIA	Cream	_	_	_	-	_
	Impact Resistant	DIY	Green					
	Antibacterial/Mold Resistant	MWS	Cream					
	Metal Detectable	MPD	Black					
	Metal Detectable	MPW	DICK					

Note: 1. ●: Standard product —: Not available —: Special configurations may be available. Contact a Tsubaki representative for further information. 2. Operating temperature of (65) is for wet conditions.

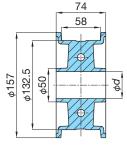
Chain (Stainless Steel Pins)

Material	Standard	Top plate width	Approx. mass	Pin material
Material mark	-	mm	kg/m	rin maleriai
Tsubaki model no.	TP-50UNS	55.5	1.5	Stainless steel

Note: 1. TPUN sprockets can be used. 2. Plastic pins are not available.

Engineering Plastic Idler Wheels



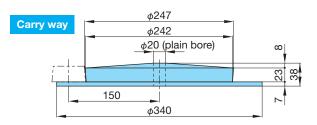


Tsubaki	Equivalent	Bore diameter	Approx. mass	Material		
model no.	no. of teeth	d	kg	Body	Bolt & nut	
TP-IW50UNS10-30	10	30.5	0.4	Polyacetal	Stainless steel	
TP-IW50UNS10-40	10	40.5	0.6	(color: green)	Sidiffiess sieei	

- Note: 1. Operating temperature range: -20°C to 80°C
 2. Bolt tightening torque: 9.8 N·m {1 kgf·m}
 3. When assembling the idler wheel, do not mix the halves with halves from other idler wheels.
 4. Should not be used under abrasive conditions.

 - 5. Shaft metal must be polished.

Turn Discs for 50UNS Chain (Machined)

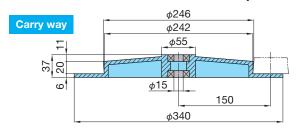


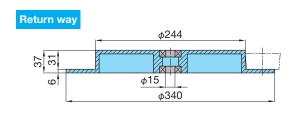


Tsubaki model no.	Material	Material grade	Color	Remarks
TP-50UNST1	High-density polyethylene	84-100	White	Carry way
TP-50UNST2	High-density polyethylene	84-100	vviile	Return way

Note: 1. Made-to-order product.

Turn Discs for 50UNS Chain (Molded)





Tsubaki model no.		Material		Color	Remarks	
	Body	Bearing	Spacer	Color	Remarks	
TP-TWD	Polyamide	Stainless steel (6202ZZ)	Stainless steel	White	Carry way	
TP-TWR	rolydillide				Return way	

Note: Made-to-order product.



^{2.} Discs with integral bearings can also be manufactured upon request.

Plastic Universal Chain TP-50UNS-D76

Sideflexing

Features

- Small sideflex radius (150mm) provides more flexibility in the layout of conveyor lines. Ideal for conveyance in tight spaces.
- Chain has a higher strength, which makes it suitable for high load applications.
- Constructed with pushers to move products up or down inclines.

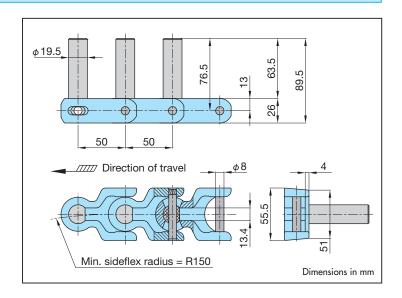


Model Numbering

Chain type

TP-50UNS-D76

Note: Do not leave spaces between letters and symbols.



Material

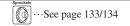
	Material			Max. allowable load	Max. allowable	e speed m/min	Operating	TP-50UNS-D76
	Malerial	mark	LITIK COIOI	kN {kgf}	With lube	No lube	temperature range °C	(body)
	Standard	-	Green	1.96 {200}	35	35	-20 to 80 (65)	0
		LFW	White			_		
Standard chain	Low Friction/Anti-Wear	LFG	Green	_	_	_	_	_
chain		LFB	Brown	1.96 {200}	35	35	-20 to 80 (65)	A
	Ultra Low Friction	ULF	Blue	-	_	_	-	_
	Low Friction	WR	Green	1.96 {200}	35	35	-20 to 80 (65)	A
	Heat Resistant/ High Speed	KV150						
		KV180	Black					
		KV250						
	Chemical Resistant	Υ	Matte white					
High-function	Electroconductive	Е	Black				-	
chain	Impact Resistant	DIA	Cream	_	_	_		_
	impaci kesisiani	DIY	Green					
	Antibacterial/Mold Resistant	MWS	Cream					
	Metal Detectable	MPD	Black					
-	Meidi Delecidble	MPW	DIUCK					

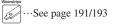
Note: 1. 🔾 : Made-to-order product 👚 : Not available 🔺 : Special configurations may be available. Contact a Tsubaki representative for further information. 2. Operating temperature of (65) is for wet conditions.

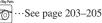
Chain (Stainless Steel Pins)

Material	Standard	Top plate width	Approx. mass	Pin material
Material mark	-	mm	··· kg/m	rin malenai
Tsubaki model no.	TP-50UNS-D76	55.5	2.0	Stainless steel

Note: 1. Made-to-order product. 2. TPUN sprockets can be used. 3. Plastic pins are not available.







Plastic Universal Chain TP-50UN-T95

Sideflexing

Features

- Small sideflex radius (150mm) provides more flexibility in the layout of conveyor lines. Ideal for conveyance in tight spaces.
- Constructed with crescent-shaped top plates to minimize the gap in straight and curved sections for better product handling.

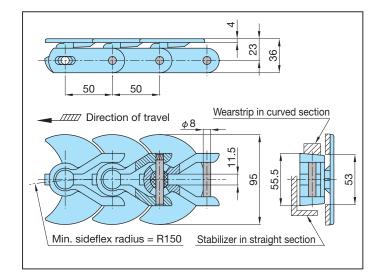


Model Numbering

Chain type

TP-50UN-T95

Note: Do not leave spaces between letters and symbols.



Material

	Material	Material	Link color	Max. allowable load	Max. allowable	e speed m/min	Operating	TP-50UN-T95	
	Material	mark	LINK COIOF	kN {kgf}	With lube	No lube	temperature range °C	1P-300IN-193	
	Standard	-	Green	1.96 {200}	35	35	-20 to 80 (65)	0	
Standard chain		LFW	White	1.90 {200}	33	33	-20 10 60 (63)	A	
	Low Friction/Anti-Wear	LFG	Green						
		LFB	Brown	_	_	_	-	_	
	Ultra Low Friction	ULF	Blue						
	Low Friction	WR	Green	1.96 {200}	35	35	-20 to 80 (65)	A	
	Heat Resistant/ High Speed	KV150							
		KV180	Black						
		KV250]						
	Chemical Resistant	Υ	Matte white		-				
High-function	Electroconductive	Е	Black						
chain	Inner met De sietemet	DIA	Cream	_		_	_	-	
	Impact Resistant	DIY	Green						
	Antibacterial/Mold Resistant	MWS	Cream						
	Metal Detectable	MPD	DI I						
	Metal Detectable	MPW	Black						

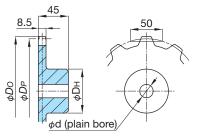
Note: 1. 🔾 : Made-to-order product 📉 - : Not available 🕒 : Special configurations may be available. Contact a Tsubaki representative for further information.

Chain (Stainless Steel Pins)

Material	Standard	Top plate width	Approx. mass	Din meterial
Material mark	-	mm	kg/m	Pin material
Tsubaki model no.	TP-50UN-T95	95	1.9	Stainless steel

Note: 1. Made-to-order product. 2. TPUN sprockets can be used. 3. Plastic pins are not available.

Steel Sprockets for 50UN-T95 Chain



Tsubaki	aki Taath				Outside diameter			ımeter d	Approx.	Material
model no.	el no.	D _P Do			Plain bore	Max.	mass kg	Maleriai		
TP-50UNT-8T	8	130.6	129	65	15	40	1.6			
TP-50UNT-10T	10	161.8	163	65	20	40	2.3	Carbon steel		
TP-50UNT-12T	12	193.2	198	65	20	40	2.8			

Note: 1. Made-to-order product.

^{2.} Sprockets can also be manufactured with other number of teeth than noted above.



^{2.} Operating temperature of (65) is for wet conditions.

Curved-Movement Plastic Chain TPCC

Sideflexing

Features

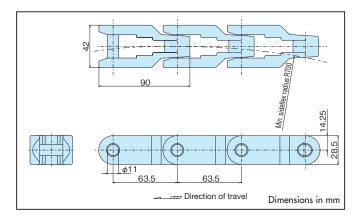
Simple plastic chain with offset link design. For conveying crates, boxes, and the like.

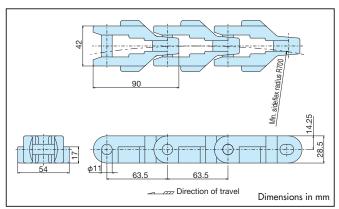
TPCC420



TPCC420-T







Model Numbering

Width Chain type Tab 420 T **TPCC**

Note: Do not leave spaces between letters and symbols.

Chain (Stainless Steel Pins)

Material	Tsubaki model no.	Top plate		Max. allowable load	Approx.	Operating	Max. allowable speed m/min	
Material	isubaki model no.	Material	Link color	kN {kgf}	mass kg/m	temperature range °C	With lube	No lube
Standard	TPCC420	Polyacetal White	\\/b:+c	1.96 {200}	1.33	-20 to 80 (65)	25	25
	TPCC420-T		1.90 (200)	1.49	-20 10 80 (03)	33	33	

- 1. Standard product.
 2. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer. Standard chain length is 48 links.

 3. Available only in Standard material.

 4. Plastic pins are not available.

 5. Operating temperature of (65) is for wet conditions.

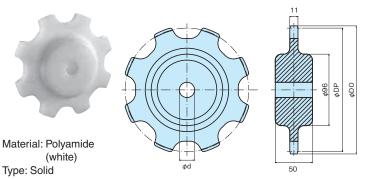
Sprockets for TPCC420 Chain

Engineering Plastic

Applicable chain

TPCC420, TPCC420-T

Sprockets



Tsubaki model no.	Teeth	Pitch diameter <i>Dp</i>	Outside diameter Do	Shaft diameter d
TP-C12326T-SPR	8	165.9	172	00
TP-C12327T-SPR	10	205.5	215	20 (plain bore)
TP-C12328T-SPR	12	245.3	256	(pidiri bore)

Note: These sprockets have a plain bore.

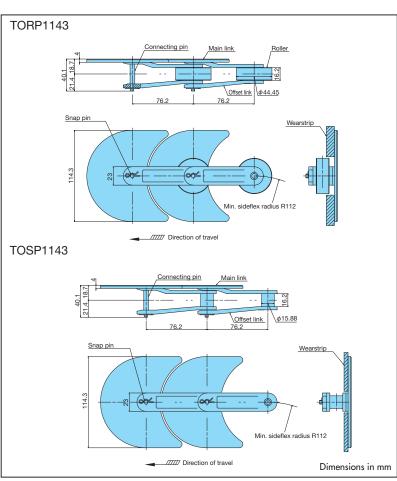
Plastic Crescent Chain TORP/TOSP

Sideflexing

Features

- For horizontal circular conveyance. Designed so the entire surface can be used to convey objects.
- No return-way chain, so the height of the conveyer can be reduced.
- Crescent-shaped top plates. Space between links remains constant in curved sections, minimizing conveyed objects becoming pinched or caught in the gap.





Model Numbering

Chain type

Plate width

TORP 1143

Note: Do not leave spaces between letters and symbols.

Chain (Stainless Steel Pins)

Tsubaki model no.	Max. allowable load kN {kgf}	Operating temperature range °C	Max. allowable speed m/min	Approx. mass kg/m	Top plate main link	Offset link	Roller	Connecting pin/snap pin	Link color
TORP1143	0.69 {70}	0 to 60	20 m/min	1.40	Reinforced polycarbonate	Reinforced	Polyacetal	Stainless steel	White
TOSP1143		0 10 60	and under	1.36		polycarbonate			

Note: 1. Made-to-order product.

- 2. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer. Standard chain length is 40 links.

 3. Values for maximum allowable load are at ambient temperature.

- Bearing areas between the pins and bushings are pre-lubricated.
 For TOSP chain, the sprockets should be installed in the curved sections.
- 6. Connecting pins not sold separately.

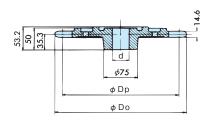


Sprockets for TO Chain

Applicable chain

TORP1143 & TOSP1143

Sprockets for TO Chain (with Plain Bore)



Applicable	Tsubaki	Actual	Effective	Pitch	Outside	Bore dia	ameter d	Approx.	Material
chain	model no.	teeth	teeth	diameter Dp	diameter Do	Plain bore	Max.	mass kg	Maleriai
TORP1143	TOR1100T	11	11	270.47	305	22	4.5	7.6	FC250
TOSP1143	TOS1013T	31	10½	254.59	269	23	45	7.2	FC230

Note: Made-to-order product.

Plastic Top Chain TP-36AK

Sideflexing

Features

- Chain is uniquely designed to keep the gaps at a minimum in straight and curved sections for better product handling.
- High-friction top plates can be assembled with standard link materials, making this chain suitable for incline or decline conveyors.

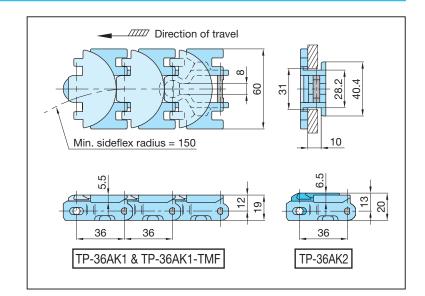


Model Numbering

Chain type

TP-36AK2

Note: Do not leave spaces between letters and symbols.

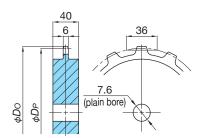


Chain (Stainless Steel Pins)

Tsubaki model no.		Material		Color	Top plate Max. allowable load kN {kgf}		Operating temperature	Max. allowable speed m/min		Approx.	Pin material
	Link	Top plate	Link	Top plate			range °C	With lube	No lube	kg/m	
TP-36AK1	Standard	Standard	White	White		0.5 {51}	-20 to 80	100			
TP-36AK1-TMF	Standard	Middle Friction	White	Yellow	60	0.5 {51}	-20 to 80 (dry only)	-	50	0.75	Stainless steel
TP-36AK2	Standard	Polyurethane	White	Yellowish brown		0.07 {7.1}	-20 to 80 (dry only)	-			

Note: 1. Made-to-order product. 2. Plastic pins are not available.

Engineering Plastic Sprockets



Tsubaki model no.	Teeth	Pitch diameter <i>Dp</i>	Outside diameter <i>Do</i>	Bore dian	neter d Max.	Approx. mass kg	Material
TP-36AK1100T	11	127.7	131			0.3	
TP-36AK1300T	13	150.4	155	20	60	0.5	UHMW-PE
TP-36AK1500T	15	173.1	178			0.7	

Note: 1. Made-to-order product.

Operating temperature range is -20°C to 60°C. Use stainless steel sprockets (made-to-order product) when operating temperatures exceed 60°C.

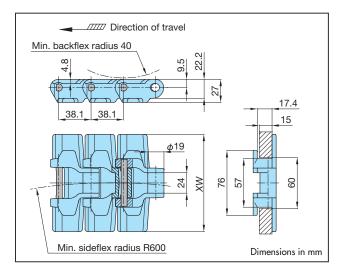
●TPUS-Y-T



Material mark Link color Connecting pin	Low Friction/Anti-Wear LFG Green D-pins	Top plate width XW mm	Max. allowable load kN{kgf}	Approx. mass kg/m
Tsubaki	TPUS1143-Y-T-LFG	114.3	1.07 (200)	2.1
model no.	TPUS1905-Y-T-LFG	190.5	1.96 {200}	2.4

Note: 1. TPUS-Y-T plastic top chain cannot be connected to UTDT-S slatband chain with knurled connecting pins sold prior to December 2004.

2. Plastic pins are not available.



Features

- Suitable for heavy loads and long conveyor applications because of high allowable chain load (except for SS and PC types).
- Replacing top plates is simple and easy.
- Base chain types available for operating environments where corrosion could be a problem.

Chain Construction

TN top chains consist of snap top plates and ANSI #60 base chain. The "legs" of the top plates are used to snap the plates onto the outer links of the base chain and to hold down the detachable plates and prevent them from coming loose.

Chain Types

1. Standard Type

Base chain is steel, and main dimensions are the same as standard roller chain. Note, however, that the shape of the pin ends is different and that strength is lower than RS roller chain. Base chain requires lubrication.

2. NP Type

Base chain is nickel-plated standard chain. The nickel plating makes for a better appearance, as well as providing corrosion resistance. Lubrication is required.

3. LMC-NP Type

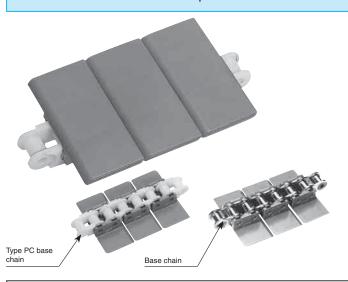
Base chain is lube-free Lambda roller chain using oil-impregnated sintered bushes. Components other than bushes are nickel-plated for corrosion resistance.

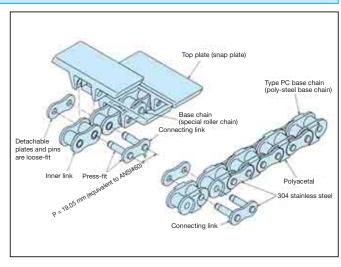
SS Type

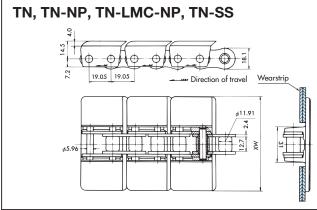
All base chain components are made of 304 stainless steel, and designed for use in environments where high corrosion resistance is required. Lubrication is required.

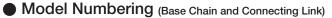
5. PC Type

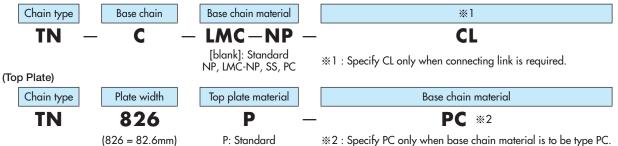
Base chain is constructed from TN-C-PC poly-steel chain. Connecting links are those intended for TN chain. Made from stainless steel and engineering plastic, this chain delivers corrosion resistance and low noise with no lubrication required.











Note: Do not leave spaces between letters and symbols.

Top Plate

Top plates for Poly-Steel Attachment Chain (PC) are made specifically for that chain. Top plates for all other types (Standard, NP, LMC-NP, and SS) are identical. Color of top plates for all five types is gray.

Base Chain

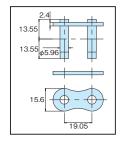
Base chain is identical in size to ANSI #60 chain (pin ends are different for general drive chain). Connecting links are intended for TN chain only. However, for Poly-Steel Attachment Chain (PC), parts other than connecting links are identical to those for drive chain.

Sprockets

Standard ANSI #60 sprockets can be used. Type B sprockets can be used provided they have at least 12 teeth.

Connecting Link

Cotter pins and spring clips are not used on roller chain or Poly-Steel Attachment Chain. The "legs" of the top plates serve to hold the connecting link plate in place and keep it from coming loose.



Caution!

Be sure to specify chain length using the number of links in the base chain. TN top plates are attached only to the outer links of the base chain, which means that the number of links in the chain is twice the number of top plates. Also, note that the number of links for standard base chain length is 160. In other words, with a chain pitch of 19.05mm, standard length is 3,048mm.

Base Chain and Connecting Links

		Standard	NP	LMC-NP	SS	PC
Base chain	Tsubaki model no.	TN-C	TN-C-NP	TN-C-LMC-NP	TN-C-SS	TN-C-PC
Connecting link	Tsubaki model no.	TN-C-CL	TN-C-NP-CL	TN-C-LMC-NP-CL	TN-C-SS-CL	TN-C-PC-CL
Max. allowable load kN {kgf}			6.28 {640}	1.03 {105}	0.88 { 90}	
Max. allowable speed	With lube	12	20	70	100	
m/min ·	No lube		60		45	50
Operating temperature range °C			-10 to 80	-20 t	o 80	

Snap Top Plates

Top plate width	XW mm	82	2.6	101.6	114.3	127.0	190.5	
Tsubaki model no.		TN826P	TN826P-PC	TN1016P	TN1143P	TN1270P	TN1905P	
Approx. mass (top plate +	base chain) kg/m	2.1	1.5	2.2	2.3	2.4	2.8	
Top plate material		Polyacetal (Standard, color: gray)						

Note: The top plate model number is different when base chain is PC. (TN826P-PC).

Snap Top Plate Material

	Material	Material mark	Link color	TN826P	TN826P-PC	TN1016P	TN1143P	TN1270P	TN1905P	
	Standard	-	Gray	•	•	•	•	•	•	
		LFW	White							
Standard	Low Friction/Anti-Wear	LFG	Green		0	0	0	0	0	
chain		LFB	Brown							
	Ultra Low Friction	ULF	Blue	-	-	-	-	-	-	
	Low Friction	WR	Green	A	A	A	A	A	A	
	II ID 'I I/	KV150				_				
	Heat Resistant/ High Speed	KV180	Black				_	-	_	
		KV250		_	_	_	_		_	
	High Speed	HS	Cream							
re L f - e	Chemical Resistant	Υ	Matte white	*	*	*	*	*	*	
High-function chain	Electroconductive	E	Black				_			
cridiii	Impact Resistant	DIA	Cream	_	-	_		_	_	
	impaci kesisiani	DIY	Green							
	Antibacterial/Mold Resistant	MWS	Cream	A	A	A	A	A	A	
	Metal Detectable	MPD	Black							
	Meidi Delecidble	MPW	DIUCK	_	_	_	_	_	_	

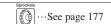
Note: 1. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total

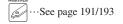
chain length as ordered by the customer.

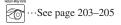
2. ●: Standard product ○: Made-to-order product -: Not available

★: Special configurations may be available.

* : May be available only when base chain is SS or PC. Contact a Tsubaki representative for further information.







Snap Top Chain TNU

Features

- Curved conveyance chain with high allowable load (double the allowable load of TTUP chain). The sideflexing version of TN Snap Top Chain.
- Replacing top plates is simple and easy.
- Base chain types available for operating environments where corrosion could be a problem.

Chain Construction

TNU top chains consist of snap top plates and ANSI #60 base chain. The "legs" of the top plates are used to snap the plates onto the outer links of the base chain and to hold down the detachable plates and prevent them from coming loose.

Chain Types

1. Standard Type

Base chain is steel, and main dimensions are the same as standard roller chain. Note, however, that the shape of the pin ends is different. Base chain requires lubrication.

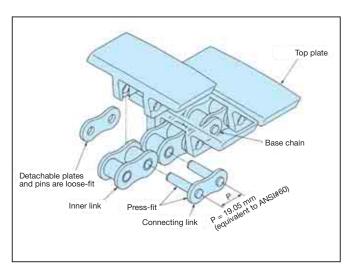
2. NP Type

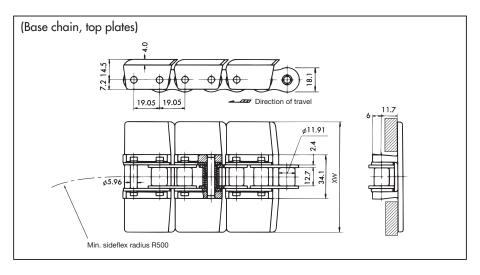
Base chain is nickel-plated standard chain. The nickel plating makes for a better appearance, as well as providing corrosion resistance. Lubrication is required.

3. AS Type

Pins, bushes, and rollers are made of precipitation-hardened stainless steel. Plates are made of 304 stainless steel. Suitable for corrosive environments. Lubrication is required.



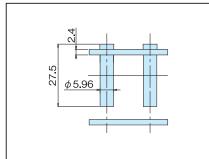


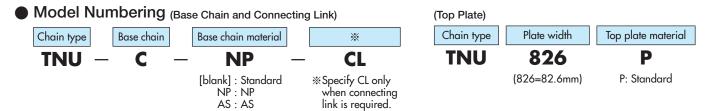


Connecting Link

Cotter pins and spring clips are not used on TNU chain. The "legs" of the top plates serve to hold the connecting link plate in place and keep it from coming loose.

Sideflexing





Note: Do not leave spaces between letters and symbols.

When ordering, specify the base chain, connecting links, and top plates separately.

Base Chain and Connecting Links

		Standard	NP	AS
Base chain	Tsubaki model no.	TNU-C	TNU-C-NP	TNU-C-AS
Connecting link	Tsubaki model no.	TNU-C-CL	TNU-C-NP-CL	TNU-C-AS-CL
Max. allowable load kN {kgf}		4.02	0.78 { 80}	
Max. allowable speed	With lube	10	00	-
m/min ·	No lube	6	45	
Operating temperature range °C		-10 t	o 80	-20 to 80

Snap Top Plates

Top plate width XW mm	82.6	114.3	127.0				
Tsubaki model no.	TNU826P	TNU1143P	TNU1270P				
Approx. mass (top plate + base chain) kg/m	2.2	2.3	2.5				
Top plate material	Polyacetal (Standard, color: gray)						

Note: Made-to-order product.

Snap Top Plate Material

	Material	Material mark	Link color	TNU826P	TNU1143P	TNU1270P	
	Standard	-	Gray				
		LFW	White	0	0		
Standard	Low Friction/Anti-Wear	LFG	Green		0	0	
chain -		LFB	Brown				
	Ultra Low Friction	ULF	Blue	-	-	-	
	Low Friction	WR	Green	A	A	A	
		KV150					
	Heat Resistant/ High Speed	KV180	Black	_			
	riigii Speed	KV250			_	_	
	High Speed	HS	Cream				
ne L C. e	Chemical Resistant	Υ	Matte white	*	*	*	
High-function chain	Electroconductive	Е	Black				
criairi	Impact Resistant	DIA	Cream	_	_	_	
	impaci kesisiani	DIY	Green				
	Antibacterial/Mold Resistant	MWS	Cream	A	A	A	
	Metal Detectable	MPD	Black				
	Meidi Delectable	MPW	DIUCK	_	-	_	

Note: 1. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer.

2. (): Made to-order product — : Not available ... Special configurations may be available.

* : May be available only when base chain is AS. Contact a Tsubaki representative for further information.

Sprockets

Standard ANSI #60 sprockets can be used. Type B sprockets can be used provided they have at least 12 teeth.

Caution!

Be sure to specify chain length using the number of links in the base chain. TNU top plates are attached only to the outer links of the base chain, which means that the number of links in the chain is twice the number of top plates. Also, note that the number of links for standard base chain length is 160, in other words, with a chain pitch of 19.05mm, standard length is 3,048mm.

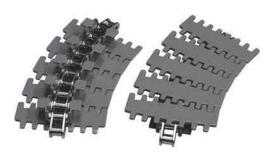


Snap Top Chain TP-PT

Sideflexing

Features

- Curved conveyance chain for heavier loads (high allowable chain load).
- Comb-toothed plates minimize gaps between links.
- Top plates snap on to a sideflexing roller chain. The top plates can be replaced, if desired.



Model Numbering

Chain type

Top plate width

Base chain material

Top plate material **LFG**

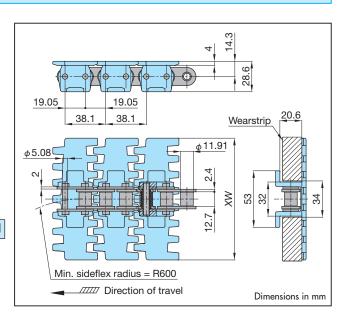
TP-PT

 $44 = 4 \frac{1}{2}$ inches = 114.3mm

[blank]: Steel (leave blank after hyphen) SS: Stainless steel

SS

Note: Do not leave spaces between letters and symbols.



Material

	Material	Material Material mark		Max. allowable load kN {kgf}		Max. allow m/i	able speed min	Operating temperature	TP-PT (top plate)
		mark		Steel	Stainless steel	With lube	No lube	range °C	
	Standard	-	Gray	2.16 {220}	0.88 {90}	100 (60)	40 (30)	-20 to 80	A
		LFW	White	-	-	_	-	_	-
Standard	Low Friction/Anti-Wear	LFG	Green	2.16 {220}	0.88 {90}	100 (60)	40 (30)	-20 to 80 (65)	0
chain		LFB	Brown	-	_	_	-	_	-
	Ultra Low Friction	ULF	Blue	2.16 {220}	0.88 {90}	100 (60)	40 (30)	-20 to 80 (65)	•
	Low Friction	WR	Green	2.10 (220)	0.00 (70)	100 (80)	40 (30)	-20 to 80	
	Heat Resistant/ High Speed	KV150							
		KV180	Black						
		KV250							
	High Speed	HS	Cream						
re L.Ce	Chemical Resistant	Υ	Matte white						
High-function chain	Electroconductive	Е	Black	_	_	_	-	_	_
Chain	Impact Resistant	DIA	Cream						
	impaci kesisiani	DIY	Green						
	Antibacterial/Mold Resistant	MWS	Cream						
	Metal Detectable	MPD	Black						
	Meiai Delectable	MPW	DICK						

lacktriangle : Special configurations may be available. Contact a Tsubaki representative for further information. Note: 1. \bigcirc : Made-to-order product -: Not available

2. Max. allowable speed in () is for when the base chain is stainless steel.
3. Operating temperature of (65) is for wet conditions.

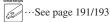
Chain

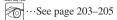
Material Material mark	Low Friction/Anti-Wear LFG	Top plate width XW mm	Approx. mass kg/m	Base chain material
	TP-PT32-LFG	82.6	2.2	Steel
Tsubaki model no.	TP-PT32-SS-LFG	62.0	2.2	Stainless steel
isubaki model no.	TP-PT44-LFG	1142	2.3	Steel
	TP-PT44-SS-LFG	114.3	2.3	Stainless steel

Note: 1. Top plate width of 82.6mm is made by trimming a 114.3mm-wide plate.
2. When ordering, count the number of top plates for necessary chain length. (Ordering is different for TN and TNU chains.)
3. Sprockets having at least 20 teeth intended for ANSI #60 standard roller chain can be used. There may be interference with the sprocket hub depending on the type and shape of the sprocket. The hub diameter (HD) should be machined so that it is less than the sprocket pitch diameter (Dp) minus 38.1mm (HD ≤ Dp−38.1).



···See page 177





Sideflexing

Snap Top Chain TP-PTS

Features

- Wide top plate width in a curved conveyance chain with high allowable load. Also useful for transporting large objects.
- Comb-toothed plates minimize gaps between links.
- Top plates snap on to a sideflexing roller chain. The top plates can be replaced, if desired.



Model Numbering

Chain type | Top plate width

TP-PTS

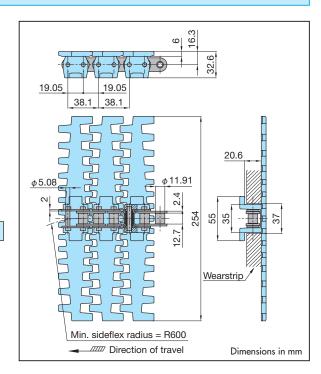
Base chain material SS

Top plate material **LFG**

100 = 10 inches

[blank]: Steel (leave blank after hyphen) SS: Stainless steel

Note: Do not leave spaces between letters and symbols.



Material

	Material	Material mark	Link color		wable load {kgf}	kgf} m/min		Operating temperature	TP-PTS (top plate)
		mark		Steel	Stainless steel	With lube	No lube	range °C	
	Standard	-	Gray	2.16 {220}	0.88 {90}	100 (60)	40 (30)	-20 to 80	A
		LFW	White	-	_	-	-	_	-
Standard	Low Friction/Anti-Wear	LFG	Green	2.16 {220}	0.88 {90}	100 (60)	40 (30)	-20 to 80 (65)	0
chain		LFB	Brown	-	-	_	_	_	-
	Ultra Low Friction	ULF	Blue	2.16 {220}	0.88 {90}	100 (60)	40 (30)	-20 to 80 (65)	A
	Low Friction	WR	Green	2.10 (220)	0.00 (70)	100 (60)	40 (30)	-20 to 80	
	II . D /	KV150							
	Heat Resistant/ High Speed	KV180	Black						
	riigii opeed	KV250							
	High Speed	HS	Cream						
re I f e	Chemical Resistant	Y	Matte white						
High-function chain	Electroconductive	Е	Black	-	_	_	_	_	-
Chain	loon and Desistant	DIA	Cream						
	Impact Resistant	DIY	Green						
	Antibacterial/Mold Resistant	MWS	Cream						
	Metal Detectable	MPD	Dlaude						
	Meidi Delectable	MPW	Black						

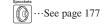
– : Not available Note: 1. (): Made-to-order product ▲ : Special configurations may be available. Contact a Tsubaki representative for further information.

2. Max. allowable speed in () is for when the base chain is stainless steel.
3. Operating temperature of (65) is for wet conditions.

Chain

Material	Low Friction/Anti-Wear	Top plate width	Approx. mass	Base chain material	
Material mark	LFG	mm	kg/m	base chain maieriai	
Tsubaki model no.	TP-PTS100-LFG	254	2.5	Steel	
Isubaki model no.	TP-PTS100-SS-LFG	254	3.3	Stainless steel	

Note: 1. Top plate width of 82.6mm is made by trimming a 114.3mm-wide plate.
2. When ordering, count the number of top plates for necessary chain length. (Ordering is different for TN and TNU chains.)
3. Sprockets having at least 20 teeth intended for ANSI #60 standard roller chain can be used. There may be interference with the sprocket hub depending on the type and shape of the sprocket. The hub diameter (HD) should be machined so that it is less than the sprocket pitch diameter (Dp) minus 38.1mm (HD ≤ Dp−38.1).







Snap Top Chain TP-1873-T

Sideflexing

Features

- Curved conveyance chain for heavier loads (high allowable chain load).
- Top plates snap on to a sideflexing roller chain. The top plates can be replaced, if desired.





Chain type TP-1873 - Roller chain material

Top plate width

Top plate material

SS [blank]: Steel (leave blank after hyphen) SS: Stainless steel

K325 = 82.6 mm

K325

Note: Do not leave spaces between letters and symbols.

19.05 19.05 38.1 38.1 φ5.08 82.6 12.7 Min. sideflex radius = R380 Direction of travel Dimensions in mm

Material

	Material	Material mark	Link color		wable load {kgf}		rable speed min	Operating temperature	TP-1873-T (top plate)	
		mark		Steel	Stainless steel	With lube	No lube	range °C	(lop plaic)	
	Standard	-	Gray					-20 to 80		
		LFW	White						A	
Standard	Low Friction/Anti-Wear	LFG	Green	2.16 {220}	0.88 {90}	100 (60)	40 (30)	-20 to 80 (65)		
chain		LFB	Brown	2.10 (220)	0.00 (70)	100 (00)	40 (30)	-20 10 60 (03)	0	
	Ultra Low Friction	ULF	Blue						•	
	Low Friction	WR	Green					-20 to 80	_	
	II . D /	KV150	Black							
	Heat Resistant/ High Speed	KV180								
		KV250								
	High Speed	HS	Cream							
re L.fe	Chemical Resistant	Υ	Matte white							
High-function chain	Electroconductive	Е	Black	_	_	_	_	_	_	
Chain	Impact Resistant	DIA	Cream							
	impaci kesisiani	DIY	Green							
	Antibacterial/Mold Resistant	MWS	Cream							
	Motal Datastable	MPD	Black							
	Metal Detectable	MPW	DIUCK							

Note: 1. (): Made-to-order product () is for when the base chain is stainless steel.

3. Operating temperature of (65) is for wet conditions.

Chain

Material	Low Friction/Anti-Wear	Top plate width	Approx. mass	Base chain material	
Material mark	LFB	mm	kg/m	base chain maieriai	
Tsubaki model no.	TP-1873-TK325-LFB	82.6	2.2	Steel	
ізирикі іподеі по.	TP-1873-SS-TK325-LFB	02.0	Ζ.Ζ	Stainless steel	

Note: 1. When ordering, count the number of top plates for necessary chain length. (Ordering is different for TN and TNU chains.)

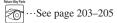
2. Sprockets having at least 16 teeth intended for ANSI 60 standard roller chain can be used. There may be interference with the sprocket hub depending on the type and shape of the sprocket. The hub diameter (HD) should be machined so that it is less than the sprocket pitch diameter (Dp) minus 38.1mm (HD ≤ Dp−38.1).

3. Contact a Tsubaki representative regarding selection.



···See page 177





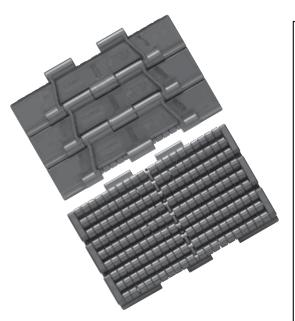
MEMO

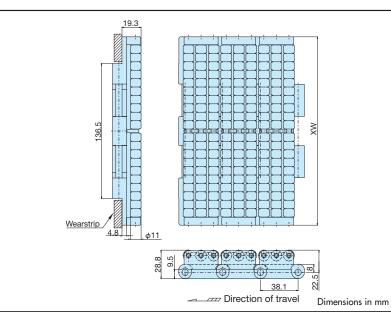
Plastic Top Accumulation Chain TTPDH-LBP

Straight Running

Features

- Free rotation of plastic accumulation rollers protects conveyed objects from damage. Ideal for minimizing marks or scratches on the bottom sides of conveyed objects and for reducing line pressure when used in accumulation applications.
- Coefficient of rolling friction for free-flow rollers is 0.10.





Model Numbering

Chain type

Plate width

Accumulation chain

TTPDH

1905

Note: Do not leave spaces between letters and symbols.

Chain (Stainless Steel Pins)

Tsubaki model no.	Plate width	Top p	olate	Max. allowable	Approx. mass	Operating	Max. allowable speed m/min	
isubaki model no.	XW mm	Material	Color	load kN {kgf}	kg/m	temperature range °C	With lube	No lube
TTPDH1905-LBP	190.5	Link: Low friction	Link: Dark gray Roller: Light blue		5.52		100	50
TTPDH2540-LBP	254.0	Roller: Special		1.67 {170}	6.90	-20 to 80 (65)		
TTPDH3048-LBP	304.8	engineering plastic	G		8.00			

- Note: 1. Standard product.
 2. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer.
 3. Specifications other than the above are not available.
 4. Plastic pins are not available.

 - 5. Operating temperature of (65) is for wet conditions.



Sideflexing

Plastic Top Accumulation Chain TPUS-LBP

Features

- Free rotation of plastic accumulation rollers protects conveyed objects from damage. Ideal for minimizing marks or scratches on the bottom sides of conveyed objects and for reducing line pressure when used in accumulation applications.
- Coefficient of rolling friction for free-flow rollers is 0.10.

TPUS953

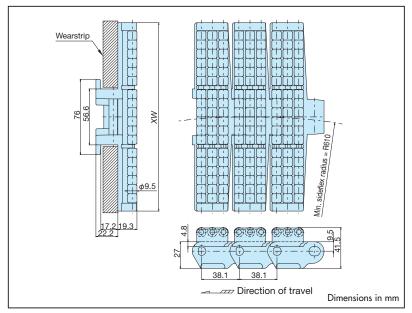




■ TPUS1905







Model Numbering

Chain type

Plate width

Tab

Accumulation chain

TPUS

1905

T

Note: Do not leave spaces between letters and symbols.

Chain (Stainless Steel Pins)

Tsubaki model no.	Plate width	Тор	plate	Max. allowable	Approx. mass		Max. allowable speed m/min		
ISODAKI MODEL NO.	XW mm	Material	Color	load kN {kgf}	kg/m	temperature range °C	With lube	No lube	
TPUS953-T-LBP	95.3				3.31			30	
TPUS1905-T-LBP	190.5	Link: Low friction Roller: Special	Link: Dark gray Roller: Light blue	2.16 {220}	4.70	-20 to 80 (65)	30		
TPUS2540-T-LBP	254.0	engineering plastic		2.10 {220}	5.90	-20 10 60 (63)			
TPUS3048-T-LBP	304.8				6.50				

- 2. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer.
- 3. Specifications other than the above are not available.4. Plastic pins are not available.
- 5. Operating temperature of (65) is for wet conditions.



Plastic Top Accumulation Chain TP-30UTW-LAP

Sideflexing

 $\phi 8.5$

10

sideflex radius = R400

_____ Direction of travel

30

20.

Features

- Roller rotation reduces line pressure.
- Coefficient of friction of rollers with conveyed objects is 0.07.
- Suitable for conveyor lines on which conveyed objects will accumulate.





Chain type

Accumulation chain

TP-30UTW

LAP

Note: Do not leave spaces between letters and symbols.

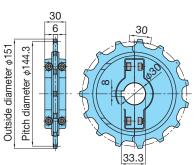
Chain (Stainless Steel Pins)

Tsubaki model no.	Material		Material mark			p plate width load kN {kgf}	Operating temperature	Max. allowable speed m/min		Approx.	Connecting pin material
model no.	Link	Roller	mark		mm	iodd il 1 [kgij	range °C	With lube	No lube	kg/m	piii iliaiciiai
TP-30UTW-LAP	Low Friction	/Anti-Wear	LFW	White	80	0.7 {71}	-20 to 80 (65)	100	50	1.90	Stainless steel

1. Standard product.

- 2. Plastic pins are not available
- Operating temperature of (65) is for wet conditions.
 Available only in LFW (Low Friction/Anti-Wear) material.

Engineering Plastic Split Sprockets

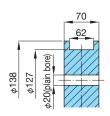


Tsubaki	Teeth	Pitch diameter	Outside diameter	Approx. mass kg	Material		
model no.	leem	Dp	Do		Body	Bolt & nut	
TP-SW30UT-1 <i>5</i> T30	15	144.3	151	0.2	Reinforced polyamide (color: black)	Stainless steel	

Note: 1. Made-to-order product.

- 2. Operating temperature range: -20°C to 80°C
- 3. Bolt tightening torque: 5.7 N·m {0.58 kgf·m}
- 4. When assembling the halves of the sprocket, do not mix the halves with halves from other sprockets.

Engineering Plastic Idler Wheels



Tsubaki model no.	Equivalent no. of teeth	Approx. mass kg	Material
TP-IW30UT-1 <i>5</i> T20	15	0.9	UHMW-PE

Note: 1. Made-to-order product.

2. Operating temperature range is $-20\,^{\circ}\text{C}$ to $60\,^{\circ}\text{C}.$ Use stainless steel sprockets (made-to-order product) when operating temperatures exceed 60°C.



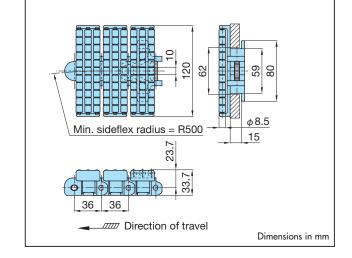
Plastic Top Accumulation Chain TP-36UTW-LAP

Sideflexing

Features

- Roller rotation reduces line pressure.
- Coefficient of friction of rollers with conveyed objects is 0.07.
- Suitable for conveyor lines on which conveyed objects will accumulate.





Model Numbering

Chain type

Accumulation chain

TP-36UTW

Note: Do not leave spaces between letters and symbols.

Chain (Stainless Steel Pins)

	Tsubaki model no.	Material		Material mark	Color Top plate width	Max. allowable load kN {kgf}	Operating temperature	Max. allowable speed m/min		Approx.	Connecting	
		Link	Roller	mark		mm	load ki i [kgi]	range °C	With lube	No lube	kg/m	piii iliaiciiai
	TP-36UTW-LAP	Low Friction	n/Anti-Wear	LFW	White	120	1.1 {112}	-20 to 80 (65)	100	50	2.90	Stainless steel

Note: 1. Standard product.

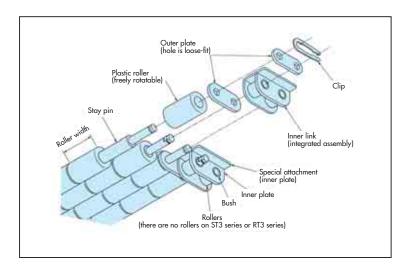
- 2. Plastic pins are not available

- 3. Operating temperature of (65) is for wet conditions.
 4. Available only in LFW (Low Friction/Anti-Wear) material.
 5. Contact a Tsubaki representative regarding special sprockets and idler wheels.



ST Roller Table





RT Roller Table

RT roller table does not have special attachments covering the chain.

Features

- Conveyed goods can be placed directly on rollers without the use of pallets.
- ST type has special attachments that are level with the plastic rollers, enabling conveyed goods to move smoothly from one side to the other across two parallel strands of chain.
- RT type has plastic rollers double the width of the ST type (except RT300 series), and can be used for transferring objects having large widths such as shipping crates and pallets.
- Coefficient of rolling friction for rollers is from 0.06 to 0.10.
- Gap between plastic rollers does not change even when bending because rollers are mounted above the
 pitch line of the base chain.

Material

ST Type

SS (stainless steel) Series

Plastic roller: Polyacetal (light gray)
Stay pin: 304 stainless steel
Special attachment: 304 stainless steel
Clip: 301 stainless steel
Base chain: Stainless steel

NP (nickel-plated) Series

Plastic roller: Polyacetal (light gray)
Stay pin: 304 stainless steel
Special attachment: 304 stainless steel
Clip: 301 stainless steel
Base chain: Nickel-plated

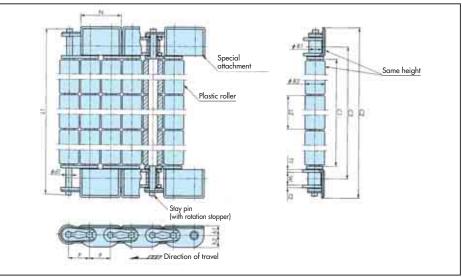
RT Type

SS (stainless steel) Series

Plastic roller: Polyacetal (light gray)
Stay pin: 304 stainless steel
Clip: 301 stainless steel
Base chain: Stainless steel

ST Roller Table





Dimensions

Туре	Pitch P	Width W	Roller (bush) diameter R1	Attachment height h1	Plate height <i>h2</i>	Attachment width N	Attachment thickness T1	Plate thickness T2	Pin diameter d1	Plastic roller outer diameter R2	Plastic roller length L2	Max. allowable conveying load* kg/m²
ST300	9.525	4.78	(5.08)	4.4	5.2	18.3	0.75	1.25	3.54	9.2	10.0	50
ST400	12.70	7.95	7.92	5.7	7.0	24.4	1.2	1.5	3.92	12.0	25.0	250
ST500	15.875	9.53	10.16	7.1	8.5	30.5	1.5	2.0	5.00	15.0	25.0	350

ST305-SS 50.0 75.0 60.4 74.2 1.75 ST310-SS 100.0 125.0 110.4 124.2 2.68 ST315-SS 150.0 175.0 160.4 174.2 3.61 ST320-SS 200.0 225.0 210.4 224.2 4.54 Tsubaki model no. Effective width C1 Total width C2 Ca Pin length L1 Approx. mass kg/m ST404-SS 101.2 138.0 115.6 135.6 4.42 ST406-SS 151.2 188.0 165.6 185.6 5.78 ST408-NP 201.2 238.0 215.6 235.6 7.13 ST410-SS 251.2 288.0 265.6 285.6 8.48 ST412-SS 301.2 338.0 315.6 335.6 9.82 ST414-SS 351.2 388.0 365.6 385.6 11.17 ST416-NP 401.2 438.0 415.6 435.6 12.52	Tsubaki model no.	Effective width C1	Total width C2	Center distance C3	Pin length L1	Approx. mass kg/m	
ST315-SS 150.0 175.0 160.4 174.2 3.61 ST320-SS 200.0 225.0 210.4 224.2 4.54 Tsubaki model no. Effective width width C1 Total distance L1 Pin length L1 Approx. mass kg/m ST404-SS 101.2 138.0 115.6 135.6 4.42 ST406-SS 151.2 188.0 165.6 185.6 5.78 ST408-NP 201.2 238.0 215.6 235.6 7.13 ST410-SS 251.2 288.0 265.6 285.6 8.48 ST412-NP 301.2 338.0 315.6 335.6 9.82 ST414-NP 351.2 388.0 365.6 385.6 11.17 ST416-SS 401.2 438.0 415.6 435.6 12.52	ST305-SS	50.0	75.0	60.4	74.2	1.75	
ST320-SS 200.0 225.0 210.4 224.2 4.54 Tsubaki model no. Effective width width C1 Total width width C2 Canter distance L1 Pin length L1 Approx. mass kg/m ST404-SS 101.2 138.0 115.6 135.6 4.42 ST406-SS 151.2 188.0 165.6 185.6 5.78 ST408-SS 201.2 238.0 215.6 235.6 7.13 ST410-SS 251.2 288.0 265.6 285.6 8.48 ST412-NP 301.2 338.0 315.6 335.6 9.82 ST414-SS 351.2 388.0 365.6 385.6 11.17 ST416-SS 401.2 438.0 415.6 435.6 12.52	ST310-SS	100.0	125.0	110.4	124.2	2.68	
Tsubaki model no. Effective width C1 Total width C2 Center distance C3 Pin length length kg/m Approx. mass kg/m ST404-SS ST404-NP ST406-SS ST406-NP ST406-SS ST406-NP ST408-SS ST408-NP ST408-SS ST408-NP ST410-SS ST410-NP ST410-SS ST410-NP ST412-SS ST410-NP ST412-SS ST412-NP ST412-SS ST412-NP ST412-SS ST412-NP ST412-SS ST412-NP ST414-SS ST414-NP ST416-SS ST414-NP ST416-SS ST414-NP ST416-SS ST414-NP ST416-SS ST412-NP ST416-SS ST415-MD ST416-SS	ST315-SS	150.0	175.0	160.4	174.2	3.61	
Subaki model no. Width C1 Width C2 C3 L1 Mass kg/m	ST320-SS	200.0	225.0	210.4	224.2	4.54	
ST404-NP 101.2 138.0 115.6 135.6 4.42 ST406-SS 151.2 188.0 165.6 185.6 5.78 ST408-NP 201.2 238.0 215.6 235.6 7.13 ST410-SS 251.2 288.0 265.6 285.6 8.48 ST412-SS 301.2 338.0 315.6 335.6 9.82 ST414-SS 351.2 388.0 365.6 385.6 11.17 ST416-SS 401.2 438.0 415.6 435.6 12.52		width	width	distance	length	mass	
ST404-NP ST406-SS 151.2 188.0 165.6 185.6 5.78 ST408-SS 201.2 238.0 215.6 235.6 7.13 ST410-SS 251.2 288.0 265.6 285.6 8.48 ST412-SS 301.2 338.0 315.6 335.6 9.82 ST414-SS 351.2 388.0 365.6 385.6 11.17 ST416-SS 401.2 438.0 415.6 435.6 12.52	ST404-SS	101.2	139.0	115.6	135.6	4.42	
ST406-NP 151.2 188.0 165.6 185.6 5.78 ST408-SS 201.2 238.0 215.6 235.6 7.13 ST410-SS 251.2 288.0 265.6 285.6 8.48 ST412-SS 301.2 338.0 315.6 335.6 9.82 ST414-SS 351.2 388.0 365.6 385.6 11.17 ST416-SS 401.2 438.0 415.6 435.6 12.52	ST404-NP	101.2	130.0	113.0	133.0		
S1406-NP ST408-SS 201.2 238.0 215.6 235.6 7.13 ST410-SS ST410-NP 251.2 288.0 265.6 285.6 8.48 ST412-SS 301.2 338.0 315.6 335.6 9.82 ST414-NP 351.2 388.0 365.6 385.6 11.17 ST416-SS 401.2 438.0 415.6 435.6 12.52	ST406-SS	151.2	199 0	145.4	195.4	5.79	
ST408-NP 201.2 238.0 215.6 235.6 7.13 ST410-SS 251.2 288.0 265.6 285.6 8.48 ST412-SS 301.2 338.0 315.6 335.6 9.82 ST414-SS 351.2 388.0 365.6 385.6 11.17 ST416-SS 401.2 438.0 415.6 435.6 12.52	ST406-NP	131.2	100.0	103.0	103.0	3.70	
ST408-NP ST410-SS 251.2 288.0 265.6 285.6 8.48 ST410-NP 301.2 338.0 315.6 335.6 9.82 ST412-NP 351.2 388.0 365.6 385.6 11.17 ST414-NP 351.2 438.0 415.6 435.6 12.52	ST408-SS	201.2	238 U	215.6	235.6	7 1 2	
ST410-NP 251.2 288.0 265.6 285.6 8.48 ST412-SS 301.2 338.0 315.6 335.6 9.82 ST412-NP 351.2 388.0 365.6 385.6 11.17 ST414-NP 351.2 438.0 415.6 435.6 12.52	ST408-NP	201.2	230.0	213.0	255.0	7.13	
S1410-NP ST412-SS ST412-NP 301.2 338.0 315.6 335.6 9.82 ST414-SS ST414-NP ST416-SS 401.2 438.0 415.6 435.6 12.52	ST410-SS	251.2	288 0	265.6	285.6	Ω 4Ω	
ST412-NP 301.2 338.0 315.6 335.6 9.82 ST414-SS 351.2 388.0 365.6 385.6 11.17 ST414-NP 351.2 388.0 415.6 435.6 12.52	ST410-NP	231.2	200.0	203.0	203.0	0.40	
S1412-NP ST414-SS ST414-NP ST416-SS 401.2 438.0 415.6 435.6 12.52	ST412-SS	301.2	338 0	315.6	335.6	0 92	
ST414-NP 351.2 388.0 365.6 385.6 11.17 ST416-SS 401.2 438.0 415.6 435.6 12.52	ST412-NP	301.2	330.0	313.0	333.0	7.02	
S1414-NP ST416-SS 401.2 438.0 415.6 435.6 12.52	ST414-SS	351.2	388 0	365.6	385.6	11 17	
<u> </u>	ST414-NP	331.2	300.0	303.0	303.0	11.17	
ST416-NP 401.2 430.0 413.0 433.0 12.32	ST416-SS	401.2	438 O	415.6	135.6	12.52	
	ST416-NP	401.2	450.0	413.0	455.0	12.52	

Tsubaki model no.	Effective width C1	Total width C2	Center distance C3	Pin length L1	Approx. mass kg/m	
ST504-SS	101.2	145.2	119.0	142.8	6.16	
ST504-NP	101.2	145.2	117.0	142.0	0.10	
ST506-SS	151.2	195.2	169.0	192.8	8.08	
ST506-NP	131.2	175.2	107.0	172.0	0.00	
ST508-SS	201.2	245.2	219.0	242.8	9.88	
ST508-NP	201.2	245.2	217.0	242.0	7.00	
ST510-SS	251.2	295.2	269.0	292.8	11.74	
ST510-NP	251.2	275.2	207.0	272.0	11.74	
ST512-SS	301.2	345.2	319.0	342.8	13.60	
ST512-NP	301.2	343.2	317.0	342.0		
ST514-SS	351.2	395.2	369.0	392.8	15.46	
ST514-NP	331.2	373.2	307.0	372.0	13.40	
ST516-SS	401.2	445.2	419.0	442.8	17.31	
ST516-NP	401.2	445.2	417.0	442.0	17.51	
ST518-SS	451.2	495.2	469.0	492.8	19.18	
ST518-NP	451.2	475.2	407.0	472.0	17.10	
ST520-SS	501.2	545.2	519.0	542.8	21.04	
ST520-NP	301.2	343.2	317.0	342.0	21.04	
ST522-SS	551.2	595.2	569.0	592.8	22.90	
ST522-NP	331.2	373.2	307.0	372.0	22.70	
ST524-SS	601.2	645.2	619.0	642.8	24.76	
ST524-NP	001.2	045.2	017.0	042.0	24.70	

Note: 1. The base chain for ST300 (#35) is rollerless and bushed type.
2. * Changes depending on the width and length of the roller table.
Contact a Tsubaki representative for chain selection.
3. Made-to-order product.

Sprockets

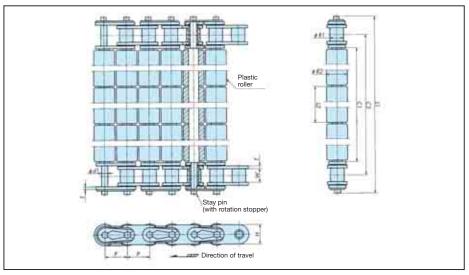
Standard ANSI sprockets (type B) can be used provided they have at least 23 teeth.

When the number of teeth is 22 or less, special roller table sprockets should be used to prevent any interference between the sprocket hub and the bottom of the chain plate.



RT Roller Table





Dimensions

Dimensions in mm

Tsubaki	Pitch	Width	Roller (bush)	Plo	ate	Pi	n	Plastic	roller	Effective	Center	Max. allowable	Approx.
model no.	P	W	diameter R1	Height <i>H</i>	Thickness T	Diameter d1	Length <i>L1</i>	Diameter R2	Length <i>L2</i>	width <i>C1</i>	distance C3	conveying load* kg/m²	mass kg/m
RT305-SS							74.2			50.5	60.4		1.68
RT310-SS	9.525	4.78	(5.08)	8.2	1.25	3.54	124.2	9.2	10.0	100.0	110.4	50	2.61
RT315-SS	7.323	4.70	(3.00)	0.2	1.23	3.34	174.2	7.2	10.0	150.0	160.4	30	3.54
RT320-SS							224.2			200.0	210.4		4.47
RT404-SS							135.6			101.2	115.6		4.03
RT408-SS	12.70	7.95	7.92	11.1	1.5	3.92	235.6	12.2	50.0	201.2	215.6	200	6.76
RT412-SS	12.70	7.73	7.72	11.1	1.5	3.72	335.6	12.2	30.0	301.2	315.6	200	9.48
RT416-SS	1						435.6			401.2	415.6		12.21
RT504-SS							142.8			101.2	119.0		5.80
RT508-SS							242.8			201.2	219.0		9.48
RT512-SS	15.875	0.50	10.16	13.9	2.0	5.00	342.8	150	50.0	301.2	319.0	200	13.17
RT516-SS	13.8/3	9.53	10.16	13.9	2.0	5.00	442.8	15.2	30.0	401.2	419.0	300	16.89
RT520-SS							542.8			501.2	519.0		20.54
RT524-SS							642.8			601.2	619.0		24.23
RT604-SS							153.6			101.2	124.0		6.73
RT608-SS							253.6			201.2	224.0		10.38
RT612-SS	19.05	12.70	11.91	16.8	2.4	5.96	353.6	18.3	50.0	301.2	324.0	300	14.03
RT616-SS	17.03	12.70	11.71	10.0	2.4	3.70	453.6	10.3	30.0	401.2	424.0	300	17.68
RT620-SS							553.6			501.2	542.0		21.32
RT624-SS							653.6			601.2	624.0		24.97

The base chain for RT300 (#35) is rollerless and bushed type.
 * Changes depending on the width and length of the roller table. Contact a Tsubaki representative for chain selection.
 Made-to-order product.

Sprockets

Standard ANSI sprockets (type B) can be used provided they have at least 23 teeth.

When the number of teeth is 22 or less, special roller table sprockets should be used to prevent any interference between the sprocket hub and the bottom of the chain plate.

For the RT600 series, outer plate height is identical to inner plate height.



Dimensions in mm

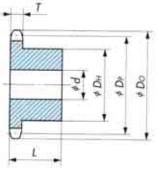
Sprockets for Plastic Roller Tables

Applicable chain

ST/RT Roller Table

Sprockets





									בווסוווים	10113 111 111111																		
Tsubaki	- 1	Pitch	Outside	Facewidth		ameter d	Hub	Length	Approx.																			
model no.	Teeth	diameter DP	diameter Do	T	Plain bore	Max.	diameter DH	thru bore <i>L</i>	mass kg	Material																		
RS35-1B13T-R	13	39.80	44			12	26		0.09																			
RS35-1B14T-R	14	42.81	47			15	29		0.11																			
RS35-1B1 <i>5</i> T-R	15	45.80	51		9.5	16	32		0.14																			
RS35-1B16T-R	16	48.82	54			19	35		0.18																			
RS35-1B17T-R	17	51.84	57	4.4		20	38	20	0.20																			
RS35-1B18T-R	18	54.85	60			23	41		0.23																			
RS35-1B19T-R	19	57.87	63		12.7	26	44		0.25																			
RS35-1B20T-R	20	60.89	66		12.7	28	47		0.29																			
RS35-1B21T-R	21	63.91	69			30	50		0.33																			
RS40-1B10T-R	10	41.10	47			12	24		0.10																			
RS40-1B11T-R	11	45.08	51		9.5	15	28		0.14																			
RS40-1B12T-R	12	49.07	55			17	32		0.17																			
RS40-1B13T-R	13	53.07	59			20	36		0.22																			
RS40-1B14T-R	14	57.07	63			23	40	22	0.27																			
RS40-1B1 <i>5</i> T-R	15	61.08	67			26	44	22	0.32																			
RS40-1B16T-R	16	65.10	71	7.3		28	48		0.38	Carbon steel																		
RS40-1B17T-R	17	69.12	76		12.7	32	52		0.44	31001																		
RS40-1B18T-R	18	73.14	80									12./	35	56		0.50												
RS40-1B19T-R	19	77.16	84]]]]			38	60		0.57				
RS40-1B20T-R	20	81.18	88									41	64		0.72													
RS40-1B21T-R	21	85.21	92			45	68	25	0.80																			
RS40-1B22T-R	22	89.24	96			47	72		0.90																			
RS50-1B10T-R	10	51.37	58		9.5	16	31		0.20																			
RS50-1B11T-R	11	56.35	64			20	36		0.24																			
RS50-1B12T-R	12	61.34	69			23	41		0.31																			
RS50-1B13T-R	13	66.34	74	1		27	46	25	0.40																			
RS50-1B14T-R	14	71.34	79	8.9	12.7	31	51	23	0.50																			
RS50-1B15T-R	15	76.35	84		12./	35	56		0.60																			
RS50-1B16T-R	16	81.37	89			-	-	-	-	-		-	-	1	1			1]]		1		38	61		0.70	
RS50-1B17T-R	17	86.39	94			-	-	-	-	-		43	66		0.80													
RS50-1B18T-R	18	91.42	100			46	71	28	0.97																			

- 1. Teeth for all sprockets are hardened.
- 2. A greater number of teeth than those given in the table above can be used with ANSI standard sprockets.

- A greater number of feeth find mose given in the table above can be used with AINSI standard sprockets.
 RT type roller table can use the same sprockets as above with the exception of the following.
 RS351B: 14 teeth or greater
 RS401B: 13 teeth or greater
 RS501B: 14 teeth or greater, and
 RS601B: 12 teeth or greater can use AINSI standard sprockets.
 304 stainless steel series are the same as above. (Contact a Tsubaki representative for further information.)
- 5. Made-to-order product.

Model Numbering



Note: Do not leave spaces between letters and symbols.

Plastic Block Chain RSP

Features

- Smaller chain pitch than plastic top chain allows use of sprockets with a smaller outer diameter, effectively reducing the gap between the end of one conveyor and the start of the next conveyor.
- Diverse range of chain pitches and link widths available. Suitable for a wide range of applications.
- Standard ANSI sprockets can be used.
- Block shape and small link width ideal for conveying small goods.
- Multiple strands can be used in parallel; ideal for conveying pallets.

Improved Design

The design of RSP40 and RSP60 Plastic Block Chains with stainless steel pins was improved in July 2008 to provide additional stability and reliability.



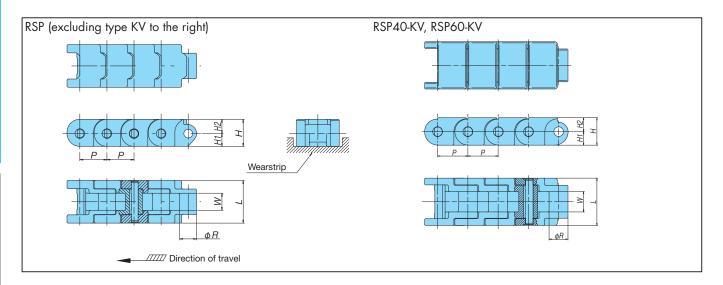
Changes:

1) Link top surface

The shape of the link top surface was modified to eliminate thin-walled sections that had the potential to crack or deform, and to resist chipping. Link shape is now the same as type RSP35 and RSP50 chains with stainless steel pins.

Stainless Steel Pins: Straight Running

2) Knurled connecting pins updated to D-pins This change reduces the risk of damage to connecting areas (such as stress cracking at pin holes) and prevents problems with pins falling out.



Model Numbering



Note: Do not leave spaces between letters and symbols.

Connecting Pin

- 1. 304 stainless steel D-pin for RSP35 Model no. RSP35-SUS-JPD
- 304 stainless steel D-pin for RSP40 Model no. RSP40-SUS-JPD
- 3. 304 stainless steel D-pin for RSP50 Model no. RSP50-SUS-JPD
- 4. 304 stainless steel D-pin for RSP60 Model no. RSP60-SUS-JPD

Chain (Stainless Steel Pins)

Dimensions in mm

Tsubaki model no.	Р	R	W	L	Н1	H2	Н	Approx. mass kg/m (DIA/DIY)	No. of links per 10 ft
RSP35	9.525	5.08	4.78	13	4	5	9	0.15 (0.13/0.18)	320
RSP40	12.7	7.92	7.95	20	6	6.7	12.7	0.36 (0.30/0.45)	240
RSP50	15.875	10.16	9.53	22.5	7	8	15	0.46 (0.40/0.55)	192
RSP60	19.05	11.91	12.7	30	8.5	8.8	17.3	0.72 (0.68/0.90)	160

Material

	Material	Material	mark color —			wable load {kgf}		Max. allow		Operating temperature	RSP 35	RSP 40	RSP 50	RSP 60
		mark	COIOI	RSP35	RSP40	RSP50	RSP60	With lube	No lube	range °C	33	40	30	00
	Standard	-	White								•		•	
		LFW	White								0	0	0	0
Standard	Low Friction/Anti-Wear	LFG	Green	0.18{18}	0.44{45}	0.69{70}	0.88{90}	6	0	-20 to 80	0	0	0	0
chain		LFB	Brown								0	0	0	0
	Ultra Low Friction	ULF	Blue								0	0	0	0
	Low Friction	WR	Green	-	_	_	_	-			-	_	-	_
	Heat Resistant/ High Speed	KV150		_		_		_		-20 to 150	-	0	-	0
		KV180	Black	0.18{18}	0.44{45}	-	0.88{90}	100	100	-20 to 180	0	0	-	0
	riigii opeca	KV250		_		_		100	100		-		-	
	Chemical Resistant	Y	Matte	0.10{10}	0.05(05)	0.39{40}	0.49{50}				0	0	0	0
re L.C. e	Super Chemical Resistant	SY	white	-	0.25{25}	-	0.47(30)	60			-	0	-	0
High-function chain	Electroconductive	Е	Black	0.13{13}	0.34{35}	0.49{50}	0.64{65}		60	-20 to 80	0		0	0
Citalii	Inches and Descriptions	DIA	Cream	0.14(14)	0.34{35}	0 5 4(55)	0.69{70}	-	00	-20 to 60	0	0	0	0
Impact Resistant Antibacterial/Mold I	impact kesistant	DIY	Green	0.14{14}	0.34{33}	0.54{55}	0.09{/0}	60			0	0	0	0
	Antibacterial/Mold Resistant	MWS	Cream	0.18{18}	0.44{45}	0.69{70}	0.88{90}	00			0	0	0	0
	Matel Datastella	MPD	Black	_	_	_	_	-	-	_	A		A	
Metal Detectable		MPW	DIUCK	-	-	-	-	-	-	-	-	-	-	-

Note: 1. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer. Standard chain length is 10 feet.

2. ■: Standard product : Made-to-order product : Not available

▲ : Special configurations may be available. Contact a Tsubaki representative for further information.

Material	Standard		Low Friction/Anti-Wear	Antibacterial/ Mold Resistant	Ultra Low Friction	
Material mark	-	LFW	LFG	LFB	MWS	ULF
	RSP35	RSP35-LFW	RSP35-LFG	RSP35-LFB	RSP35-MWS	RSP35-ULF
Tsubaki model no.	RSP40	RSP40-LFW	RSP40-LFG	RSP40-LFB	RSP40-MWS	RSP40-ULF
isubaki model no.	RSP50	RSP50-LFW	RSP50-LFG	RSP50-LFB	RSP50-MWS	RSP50-ULF
	RSP60	RSP60-LFW	RSP60-LFG	RSP60-LFB	RSP60-MWS	RSP60-ULF
			Ht D:-tt/			S Ch

Material	Impact I	Resistant	Heat Resistant/ High Speed	Electroconductive	Chemical Resistant	Super Chemical Resistant
Material mark	DIA	DIY	KV180	E	Y	SY
	RSP35-DIA	RSP35-DIY	RSP35-KV180	RSP35-E	RSP35-Y	_
Tsubaki model no.	RSP40-DIA	RSP40-DIY	RSP40-KV180	RSP40-E	RSP40-Y	RSP40-SY
Isubaki model no.	RSP50-DIA	RSP50-DIY	_	RSP50-E	RSP50-Y	-
	RSP60-DIA	RSP60-DIY	RSP60-KV180	RSP60-E	RSP60-Y	RSP60-SY

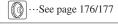
Note: 1. Heat Resistant/High Speed chains (RSP40-KV180, RSP60-KV180, RSP40-KV150, RSP60-KV150) have different top link shapes. They cannot be connected to other

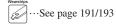
Connecting pins for Super Chemical Resistant chain are knurled pins (other chain types use D-pins).
 The design of RSP40 and RSP60 chains was improved in July 2008.
 New chain cannot be connected to an old chain model. When replacing an old chain model, always replace the entire chain.

Sprockets

Standard ANSI sprockets can be used (minimum number of teeth is 14).

It may be necessary to machine the hub diameter depending on the sprocket type and the hub diameter.





Plastic Block Chain RSP-P

Plastic Pins: Straight Running

Features

- Smaller chain pitch than plastic top chain allows use of sprockets with a smaller outer diameter, effectively reducing the gap between the end of one conveyor and the start of the next conveyor.
- Diverse range of chain pitches and link widths available. Suitable for a wide range of applications.
- Standard ANSI sprockets can be used.
- Block shape and small link width ideal for conveying small goods.
- Multiple strands can be used in parallel; ideal for conveying
- All-plastic construction means light weight and easy handling. Longer service life under water lubrication than stainless steel pins.

Model Numbering

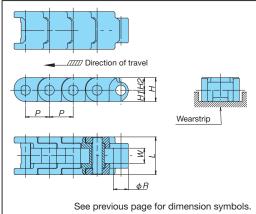


Note: Do not leave spaces between letters and symbols.

Connecting Pin

- 1. Special engineering plastic D-pin for RSP40P, orange Model no. RSP40-PLA-JPD
- 2. Special engineering plastic D-pin for RSP60P, orange Model no. RSP60-PLA-JPD





Sprockets

Standard ANSI sprockets can be used (minimum number of teeth is 14). It may be necessary to machine the hub diameter depending on the sprocket type and the hub diameter.

Material

	Material	Material	Link	Max. allowable	e load kN {kgf}	Max. allowabl	e speed m/min	Operating temperature	RSP	RSP
	Maleriai	mark	color	RSP40P	RSP60P	With lube	No lube	range °C	40P	60P
	Standard	-	White						0	0
		LFW	White	0.25{25}	0.59{60}	60		-20 to (60) 80	0	0
Standard	Low Friction/Anti-Wear	LFG	Green	0.23{23}	0.39{60}	6	00	-20 10 (00) 00	0	0
chain		LFB	Brown						0	0
	Ultra Low Friction	ULF	Blue	-	-	-	_	-	-	_
	Low Friction	WR	Green	-	-	-	-	-	-	_
	II . D /	KV150		_	_	_	_	-	-	_
	Heat Resistant/ High Speed	KV180	Black	-	-	-	-	-	-	_
	riigii Speed	KV250		_	-	_	_	-	-	_
	Chemical Resistant	Υ	Matte	0.13{13}	0.30{30}	6	0	-20 to (60) 80	A	
ur I f e	Super Chemical Resistant	SY	white	-	-	_	_	-	-	_
High-function chain	Electroconductive	Е	Black	0.18{18}	0.41{42}	6	0	-20 to (60) 80	0	0
Chain	Impact Resistant	DIA	Cream	-	-	-	-	-	-	_
	impact kesistant	DIY	Green	0.20{20}	0.44{45}	- 6	0	-20 to (60) 80	0	0
	Antibacterial/Mold Resistant	MWS	Cream	0.25{25}	0.59{60}	1	00	-20 to (00) 60	0	0
	Metal Detectable	MPD	Black	-	_	_	_	-	-	_
	Meiui Deleciable	MPW	DIUCK	-	-	-	_	-	-	_

Note: 1. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer. Standard chain length is 240 links for RSP40P and 160 links for RSP60P.

2. O: Made-to-order product —: Not available

3. The plastic connecting pin is colored orange so as to distinguish it from base-chain pins (colored white).

4. Operating temperature of (60) is for using plastic pin chain in wet conditions.

Chain (Plastic Pins)

Chain size: 40 (12.7mm pitch)

Material		Low Friction/Anti-Wear	-	Antibacterial/Mold Resistant	Impact Resistant	Approx. mass
Material mark	LFW	LFG	LFB	MWS	DIY	kg/m
Tsubaki model no.	RSP40P-LFW	RSP40P-LFG	RSP40P-LFB	RSP40P-MWS	RSP40P-DIY	0.26 (DIY: 0.30)

Chain size: 60 (19.05mm pitch)

Material		Low Friction/Anti-Wear	r	Antibacterial/Mold Resistant	Impact Resistant	Approx. mass
Material mark	LFW	LFG	LFB	MWS	DIY	kg/m
Tsubaki model no.	RSP60P-LFW	RSP60P-LFG	RSP60P-LFB	RSP60P-MWS	RSP60P-DIY	0.53 (DIY: 0.62)

Note: Made-to-order product.



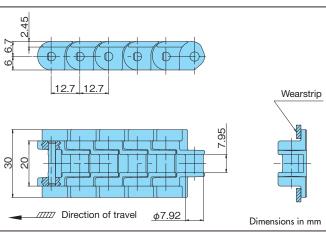
Plastic Block Chain RSP-SL

Straight Running

Features

- Plastic Block Chain with top plates; ideal for conveying small goods.
- Suitable for suspended conveyance of goods between paralleled strands of chains.
- Smaller chain pitch than plastic top chain allows use of sprockets with a smaller outer diameter, effectively reducing the gap between the end of one conveyor and the start of the next conveyor.





Model Numbering



Chain size



SL

Plate width

Chain material **LFB** 300

Connecting Pin

1. 304 stainless steel D-pin Model no. RSP40-SUS-JPD

Note: Do not leave spaces between letters and symbols.

Material

	Material	Material mark	Link color	Max. allowable load kN {kgf}	Max. allowabl With lube	e speed m/min No lube	Operating temperature range °C	RSP40-SL300
	Standard	_	White					0
		LFW	White					0
Standard	Low Friction/Anti-Wear	LFG	Green	0.44{45}	6	0	-20 to 80	0
chain		LFB	Brown					0
	Ultra Low Friction	ULF	Blue					0
	Low Friction	WR	Green	-	_	_	-	-
	logt Posistant/	KV150		-	_	_	_	-
Heat Resistant/ High Speed	KV180	Black	-	-	_	_	-	
	r light opeca	KV250		_	_	_	_	-
	Chemical Resistant	Υ	Matte white	0.22{22}	60		-20 to 80	0
utal faratar	Super Chemical Resistant	SY	Maile Wille	_	_	_	_	-
High-function chain	Electroconductive	Е	Black		6	0		0
Citalii	Impact Resistant	DIA	Cream	0.34{35}	_	60	-20 to 80	0
	•	DIY	Green		_	50	-20 10 60	0
A	Antibacterial/Mold Resistant	MWS	Cream	0.44{45}	0	0		0
	Metal Detectable	MPD	Black	-	-	_	-	-
	Meiai Deleciable	MPW	DidCK	-			-	_

Note: 1. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer. Standard chain length is 240 links.

2.

: Made-to-order product — : Not available

Chain (Stainless Steel Pins)

Material	Standard	Le	ow Friction/Anti-Wed	ar	Ultra Low Friction	Impact	Resistant
Material mark	-	LFW	LFG	LFB	ULF	DIA	DIY
Tsubaki model no.	RSP40-SL300	RSP40- SL300-LFW	RSP40- SL300-LFG	RSP40- SL300-LFB	RSP40- SL300-ULF	RSP40- SL300-DIA	RSP40- SL300-DIY

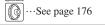
Note: 1. Made-to-order product.

2. Plastic pins are not available.

Sprockets

Standard ANSI #40 sprockets can be used (minimum number of teeth is 14).

It may be necessary to machine the hub diameter depending on the sprocket type and the hub diameter.



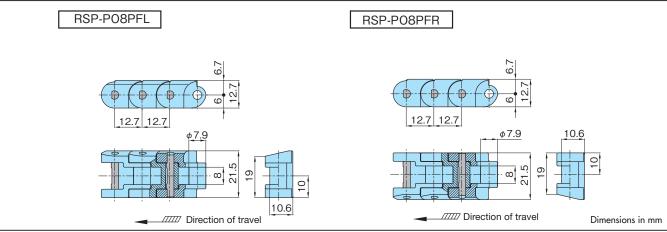
Plastic Block Chain RSP-P08PF

Stainless Steel Pins: Straight Running

Features

- Small pitch and small link width ideal for conveying small goods.
- Chain is designed to convey flanged products supported between two strands of chains.
- Standard ANSI #40 sprockets can be used.





Model Numbering

Chain type Chain size Chain type Tapered side **RSP-PO** R or L

> Indicates which side the taper will be on with respect to the chain direction of travel (right side: R; left side: L)

Note: Do not leave spaces between letters and symbols.

Material

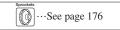
	Material	Material mark	Link color	Max. allowable load		e speed m/min	Operating temperature	RSP-	RSP-
	Maleriai	Malerial mark	LITIK COIOI	kN {kgf}	With lube	No lube	range °C	PO8PFL	PO8PFR
	Standard	_	Gray				-20 to 80	A	A
		LFW	White					A	A
Standard	Low Friction/Anti-Wear	LFG	Green	0.49{50}	60	60	-20 to 80 (65)	A	
chain		LFB	Brown	0.47(30)	00	00	-20 10 60 (63)	A	A
	Ultra Low Friction	ULF	ULF Blue			A	A		
	Low Friction	WR	Green				-20 to 80	0	0
	Heat Resistant/ High Speed	KV150 KV180 KV250	Black	-	_	-	-	_	-
	High Temperature	HTW	White	-	_	_	-	-	-
	High Speed	HS	Cream	-	_	-	-	-	-
High-function	Chemical Resistant	Y	Matte white	-	_	_	-	_	-
chain	Electroconductive	Е	Black	0.39{40}	60	60	-20 to 80	A	
	Impact Resistant	DIA	Cream					_	
	impaci kesisiani	DIY	Green	_	_	_	_	_	_
	Antibacterial/Mold Resistant	MWS	Cream	-	_	-	-	_	
	Metal Detectable	MPD MPW	Black	-	-	-	-	-	_

Note: 1. 🔾 : Made-to-order product — : Not available — : Special configurations may be available. Contact a Tsubaki representative for further information.

Chain (Stainless Steel Pins)

Material	Low F	Approx. mass
Material mark	W	kg/m
Tsubaki model no.	RSP-PO8PFL	0.4

Note: 1. Made-to-order product.



^{2.} Operating temperature of (65) is for wet conditions.

^{2.} Plastic pins are not available.
3. Standard ANSI #40 sprockets can be used (minimum number of teeth is 13). It may be necessary to machine the hub diameter depending on the sprocket type and the hub diameter.

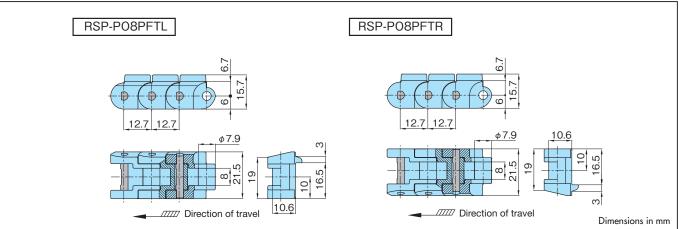
Plastic Block Chain RSP-P08PFT

Straight Running

Features

- Small pitch and small link width ideal for conveying small goods.
- Chain is designed to convey flanged products supported between two strands of chains. Protrusions on the surface enable centering of flanged products.
- Standard ANSI #40 sprockets can be used.





Model Numbering

Chain type Chain size Chain type Tapered side

RSP-PO 8 PFT R or L

Indicates which side the taper will be on with respect to the chain direction of travel (right side: R; left side: L)

Note: Do not leave spaces between letters and symbols.

Material

	Material	Material mark	Link color	Max. allowable load	Max. allowable	e speed m/min	Operating temperature	RSP-	RSP-
	Malerial	Maleriarmark	LITIK COIOI	kN {kgf}	With lube	No lube	range °C	PO8PFTL	PO8PFTR
	Standard	_	Gray				-20 to 80	A	A
		LFW	White					A	A
Standard	Low Friction/Anti-Wear	LFG	Green	0.49{50}	60	60	-20 to 80 (65)	A	A
chain		LFB	Brown	0.47(30)	80	80	-20 10 60 (03)	A	A
	Ultra Low Friction ULF Blue				A	A			
	Low Friction	WR	Green				-20 to 80	0	0
	Heat Resistant/ High Speed	KV150 KV180 KV250	Black	-	_	-	-	_	-
	High Temperature	HTW	White	-	_	-	_	-	-
	High Speed	HS	Cream	-	-	-	-	-	-
High-function	Chemical Resistant	Y	Matte white	-	_	-	_	_	-
chain	Electroconductive	Е	Black	0.39{40}	60	60	-20 to 80	A	A
	Immaret Donistant	DIA	Cream						
	Impact Resistant	DIY	Green	_	_	_	_	_	_
	Antibacterial/Mold Resistant	MWS	Cream	-	_	-	-	-	
	Metal Detectable	MPD MPW	Black	_	_	_	_	_	-

Note: 1. 🔾 : Made-to-order product 👚 - : Not available 🕒 : Special configurations may be available. Contact a Tsubaki representative for further information.

2. Operating temperature of (65) is for wet conditions.

Chain (Stainless Steel Pins)

ĺ	Material	Low F	Low Friction				
	Material mark	W	kg/m				
	Tsubaki model no.	RSP-PO8PFTL	RSP-PO8PFTR	0.4			

Note: 1. Made-to-order product.

2. Plastic pins are not available.



^{23.} Standard ANSI #40 sprockets can be used (minimum number of teeth is 13). It may be necessary to machine the hub diameter depending on the sprocket type and the hub diameter.

Plastic Block Chain RSP60-2 Straight Running

Features

- Link width is double that of RSP60 chain. Suitable for conveying wider goods.
- Approx. 40% higher maximum allowable load than RSP60 plastic chain. Ideal for higher applied load



Model Numbering

Chain type

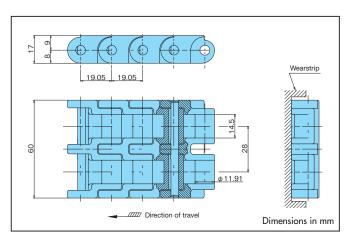
Chain size

Chain material

Chain type

RSP

Note: Do not leave spaces between letters and symbols.



Connecting Pin

1. 304 stainless steel D-pin Model no. RSP60-2-SUS-JPD

Material

	Material	Material mark	Link color	Max. allowable load kN {kgf}	Max. allowable With lube	e speed m/min No lube	Operating temperature range °C	RSP60-2
	Standard	_	Gray					•
		LFW	White					0
Standard	Low Friction/Anti-Wear	LFG	Green	1.27{130}	6	0	-20 to 80	0
chain		LFB	Brown					0
	Ultra Low Friction	ULF	Blue					0
	Low Friction	WR	Green	-	_	-	_	A
	Heat Resistant/ High Speed	KV150		-	_	_	_	-
		KV180	Black	-	_	_	_	-
		KV250		-	_	-	_	-
	Chemical Resistant	Υ	Matte white	0.64{65}				0
High-function	Super Chemical Resistant	SY		, ,	60			0
High-function chain	Electroconductive	Е	Black	0.89{91}				0
Citalii	Impact Resistant	DIA	Cream	0.98{100}	_	60	-20 to 80	0
	'	DIY	Green	0.70(100)	60			0
	Antibacterial/Mold Resistant	MWS	Cream	1.27{130}	00			0
	Metal Detectable	MPD	Black	0.98{100}	_			0
	Meidi Delecidble	MPW	DIUCK	_	_	-	_	_

Note: 1. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer. Standard chain length is 160 links.

2. 🌑 : Standard product 🤘 : Made-to-order product 🔝 : Not available 🔺 : Special configurations may be available. Contact a Tsubaki representative for further information.

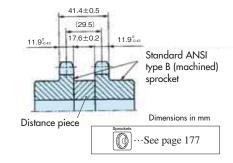
Chain (Stainless Steel Pins)

Material	Standard	Low Friction/Anti-Wear			Ultra Low Friction	Impact I	Approx. mass	
Material mark	_	LFW	LFG	LFB	ULF	DIA	DIY	kg/m
Tsubaki model no.	RSP60-2	RSP60-LFW-2	RSP60-LFG-2	RSP60-LFB-2	RSP60-ULF-2	RSP60-DIA-2	RSP60-DIY-2	1.5 DIA: 1.2 DIY: 1.65

Note: 1. Plastic pins are not available. 2. Only connecting pins for Super Chemical Resistant chain are knurled pins.

Sprockets for RSP60-2 and RSP60-CU-2

- 1. Standard ANSI double-strand sprockets cannot be used.
- 2. Use two combined standard ANSI #60 single-strand sprockets. Adjust the width between the two sprockets by inserting a distance piece. Teeth on the two sprockets must be aligned with one another.
- 3. No. of sprocket teeth is at least 12 teeth. It may be necessary to machine the hub diameter depending on the sprocket type and the hub diameter.
- 4. Special made-to-order sprockets are available.
- 5. Outer diameter of the distance piece should be the same as the hub diameter.

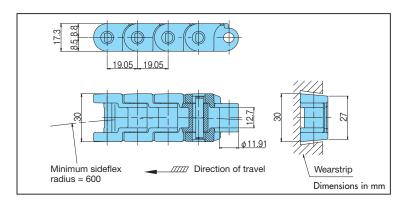


Plastic Block Chain RSP60-CU

Features

RSP60-CU chain designed for use in sideflexing conveyors.





Model Numbering





60





Chain material

LFB

Note: Do not leave spaces between letters and symbols.

Connecting Pin

- 1. 304 stainless steel D-pin Model no. RSP60-CU-SUS-JPD
- 2. Special engineering plastic D-pin, orange Model no. RSP60P-CU-PLA-JPD

Material

	Material	Material mark			kIN {kgt}		e speed m/min	Operating temperature	RSP60- CU	RSP60P- CU
				Stainless steel pin	Plastic pin	With lube	No lube	range °C	CO	CO
	Standard	_	White							0
		LFW	White						0	0
Standard	Low Friction/Anti-Wear	LFG	Green	0.83{85}	0.44{45}	6	0	-20 to 80 (60)	0	0
chain		LFB	Brown						0	0
	Ultra Low Friction	ULF	Blue				0	0		
	Low Friction	WR	Green	_	-	_	_	-	_	_
	Heat Resistant/ High Speed	KV150	Black	_	-	_	_	-	-	_
		KV180		-	-	-	-	-	-	-
		KV250		_	_	_	-	-	-	_
	Chemical Resistant	Y	Matte white	0.42{42}	0.22{22}	60	60	-20 to 80 (60)	0	_
Utala faragean	Super Chemical Resistant	SY	Maire white	_	_	-	-	-	-	-
High-function chain	Electroconductive	E	Black	0.58{59}	0.31{31}	60			0	0
ciuii	Instruct Desistant	DIA	Cream	0.64{65}	_	_	60	-20 to 80 (60)	0	_
	Impact Resistant	DIY	Green	0.04(03)	0.33{34}	60	00	-20 to 60 (60)	0	0
	Antibacterial/Mold Resistant	MWS	Cream	0.83{85}	0.44{45}	00			0	0
	Metal Detectable	MPD	Black	_	_	_			A	_
	Meidi Delecidble	MPW	DIUCK	_	-	_	_	_	A	

Note: 1. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer. Standard chain length is 160 links.

2. 🌒 : Standard product 🤍 : Made-to-order product 👚 : Not available 🔺 : Special configurations may be available. Contact a Tsubaki representative for further information.

The plastic connecting pin is colored orange so as to distinguish it from base-chain pins (colored white).
 Operating temperature of (60) is for using plastic pin chain in wet conditions.

Chain (Stainless Steel Pins)

Material	Standard	Lov	Low Friction/Anti-Wear U			Ultra Low Friction Impact Resistant			
Material mark	-	LFW	LFG	LFB	ULF	DIA	DIY	kg/m	
Tsubaki model no.	RSP60-CU	RSP60-CU-LFW	RSP60-CU-LFG	RSP60-CU-LFB	RSP60-CU-ULF	RSP60-CU-DIA	RSP60-CU-DIY	0.7 DIA : 0.6 DIY : 0.88	

Chain (Plastic Pins)

Material		Low Friction/Anti-Wear	Impact Resistant	Approx. mass	
Material mark	LFW	LFG	LFB	DIY	kg/m
Tsubaki model no.	RSP60P-CU-LFW	RSP60P-CU-LFG	RSP60P-CU-LFB	RSP60P-CU-DIY	0.5 DIY: 0.59

Sprockets

Standard ANSI #60 sprockets can be used (minimum no. of teeth is 14).

It may be necessary to machine the hub diameter depending on the sprocket type and the hub diameter.



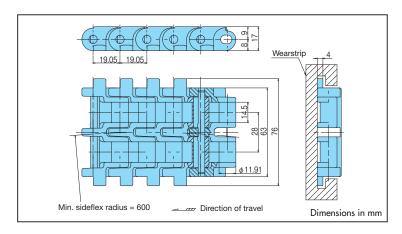
Plastic Block Chain RSP60-CU-2

Features

- Chain designed for use in sideflexing conveyors. Suitable for conveying wider goods.
- Approx. 30% higher maximum allowable load than RSP60CU chain. Ideal for higher applied load conditions.
- Equipped with float-preventive tabs. Keeps the chain securely in position.







Model Numbering

Chain type

Chain size

Chain type

Chain material

Chain type

60 2 **RSP** CU **LFB**

Connecting Pin

1. 304 stainless steel D-pin Model no. RSP60-2-SUS-JPD

Note: Do not leave spaces between letters and symbols.

Material

	Material	Material mark	Link color	Max. allowable load kN {kgf}	Max. allowable With lube	speed m/min No lube	Operating temperature range °C	RSP60-CU-2
	Standard	-	Gray					•
		LFW	White					0
Standard	Low Friction/Anti-Wear	LFG	Green	1.08{110}	6	0	-20 to 80	0
chain		LFB	Brown					0
	Ultra Low Friction	ULF	Blue					0
	Low Friction	WR	Gray	-	_	_	-	A
	II . D /	KV150		-	-	-	-	-
	Heat Resistant/ High Speed	KV180	Black	-	_	_	-	-
		KV250		-	_	_	-	-
	Chemical Resistant	Y	Matte white	0.54{55}	60	60	-20 to 80	0
re L.C. e	Super Chemical Resistant	SY	Malle Wille	-	_	_	-	-
High-function chain	Electroconductive	Е	Black	0.76{77}	60			0
chain	Impact Resistant	DIA	Cream	0.83{85}	_			0
	impaci kesisiani	DIY	Green	0.63(63)	60	60	-20 to 80	0
	Antibacterial/Mold Resistant	MWS	Cream	1.08{110}	80			0
	Metal Detectable	MPD	Black	0.83{85}	-			0
	Meidi Deleciable	MPW	DIUCK	-	_	_	_	_

Note: 1. Shipped chain will consist of a number of standard chain lengths plus (if necessary) one fractional length having the number of links needed to make up the total chain length as ordered by the customer. Standard chain length is 160 links.

2. 🌑 : Standard product 🦯 : Made-to-order product 🔝 : Not available 🔺 : Special configurations may be available. Contact a Tsubaki representative for

Chain (Stainless Steel Pins)

Material	Standard	Low Friction/Anti-Wear			Antibacterial/ Mold Resistant	Ultra Low Friction	Impact I	Resistant	Approx. mass
Material mark	-	LFW	LFG	LFB	MWS	ULF	DIA	DIY	kg/III
Tsubaki model no.	RSP60 -CU-2	RSP60-CU -LFW-2	RSP60-CU -LFG-2	RSP60-CU -LFB-2	RSP60-CU -MWS-2	RSP60-CU -ULF-2	RSP60-CU -DIA-2	RSP60-CU -DIY-2	1.5 DIA: 1.28 DIY: 1.88

Note: Plastic pins are not available.

Sprockets

Sprockets are the same as for RSP60-2 chain (see page 169).

Plastic Block Chain—Additional Options

■ RSP-PC08-2 (Straight Running)

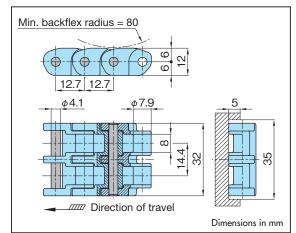


Chain (Steel Pins)

Tsubaki model no.	Material	Material mark	Link color	Max. allowable load kN {kgf}	Approx. mass kg/m
RSP-PC08-2	Standard	_	White	0.49{50}	0.6

Note: 1. Made-to-order product.
2. Plastic pins are not available.

- 3. This chain requires special sprockets. Contact a Tsubaki representative for further



Snap Cover Chain RF-SC/RS-SC Straight Running

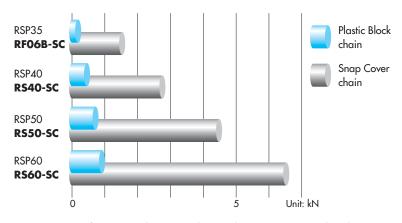
Features

- Higher maximum allowable load than Plastic Block chain (type RS60-SC approx. seven times higher than RSP60 chain). Ideal for long, heavy-load conveyors.
- Plastic covers provide safety for both conveyed goods and people.
- Six different chain pitches available, suitable for a diverse range of applications.

Tsubaki model no.	Base chain type	Plastic cover
RF06B	Standard	Standard Material: Polyacetal (white)
RS40	orania ar a	Used for general applications
RS50	NP (nickel-plated)	Material: Polyacetal (light blue) * Enables easy identification of the connecting section
RS60	Lambda (lube-free)	Electroconductive —
RS80	, ,	Material: Electroconductive polyacetal (black) Used in applications where dust build-up from static, electrical noise and sparks must be avoided
RS100	SS (304SS)	(volume specific resistance 1 X $10^6 \Omega \cdot \text{cm}$)

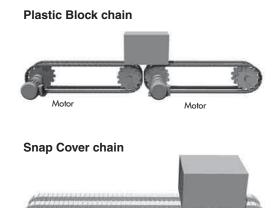
Note: Various surface-treated chains are also available. Contact a Tsubaki representative for further information.

Allowable Load Comparison with Plastic Block Chain*

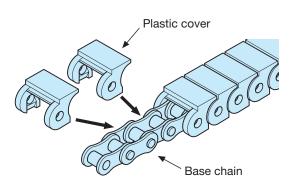


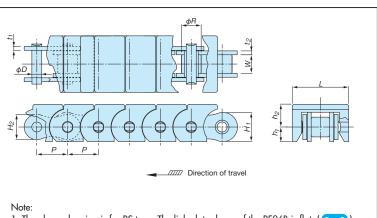
 $^{^{\}star}$ No comparison of RS80-SC and RS100-SC chains as there are no corresponding Plastic Block chains.

Location of Motors



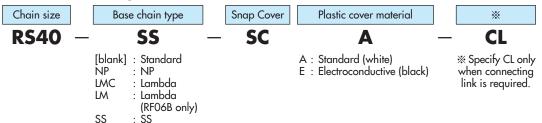
^{*} Cannot be used with electroconductive plastic covers as it will impede electroconductivity.





- 1. The above drawing is for RS type. The link plate shape of the RFO6B is flat. ()
- 2. Offset links cannot be used.

Model Numbering



Note: Do not leave spaces between letters and symbols.

Special Connecting Links

A special connecting link makes it possible to hold the detachable plate by attaching the plastic snap cover. Standard connecting links with cotters and spring clips for standard roller chains cannot be used.



Chain Dimensions in mm

	Base ch	nain type		D'i I	Roller	Width between	Pin	Plate			
Standard	NP	Lambda	SS	Pitch P	diameter R	inner link plates W	diameter D	Thickness †1	Thickness t2	Width H1	Width H2
RF06B-SC	RF06B-NP-SC	RF06B-LM-SC	RF06B-SS-SC	9.525	6.35	5.72	3.28	1.0	1.27	8.2	8.2
RS40-SC	RS40-NP-SC	RS40-LMC-SC	RS40-SS-SC	12.70	7.92	7.95	3.97	1.5	1.5	12.0	10.4
RS50-SC	RS50-NP-SC	RS50-LMC-SC	RS50-SS-SC	15.875	10.16	9.53	5.09	2.0	2.0	15.0	13.0
RS60-SC	RS60-NP-SC	RS60-LMC-SC	RS60-SS-SC	19.05	11.91	12.70	5.96	2.4	2.4	18.1	15.6
RS80-SC	RS80-NP-SC	RS80-LMC-SC	RS80-SS-SC	25.40	15.88	15.88	7.94	3.2	3.2	24.1	20.8
RS100-SC	RS100-NP-SC	RS100-LMC-SC	RS100-SS-SC	31.75	19.05	19.05	9.54	4.0	4.0	30.1	26.0

	Base ch	ain type		P	astic cov	er	Max. allowable	load kN {kgf}		Ni Chil	
Standard	NP	Lambda	SS	Height h1	Height h2	Width L	Standard/NP/ Lambda	SS	Approx. mass kg/m	No. of links per standard length	
RF06B-SC	RF06B-NP-SC	RF06B-LM-SC	RF06B-SS-SC	4.2	7.6	17.5	1.47{ 150}	0.26{ 26.5}	0.55	320	
RS40-SC	RS40-NP-SC	RS40-LMC-SC	RS40-SS-SC	6.2	9.3	23.5	2.65{ 270}	0.44{ 45 }	0.8	240	
RS50-SC	RS50-NP-SC	RS50-LMC-SC	RS50-SS-SC	7.7	11.8	29.0	4.31{ 440}	0.69{ 70 }	1.3	192	
RS60-SC	RS60-NP-SC	RS60-LMC-SC	RS60-SS-SC	8.5	13.7	35.0	6.28{ 640}	1.03{105 }	1.9	160	
RS80-SC	RS80-NP-SC	RS80-LMC-SC	RS80-SS-SC	11.5	18.0	42.5	10.7{1090}	1.77{180 }	2.9	120	
RS100-SC	RS100-NP-SC	RS100-LMC-SC	RS100-SS-SC	14.7	21.3	49.5	17.1{1740}	2.55{260 }	4.4	96	

Operating temperature range: -10°C to 80°C

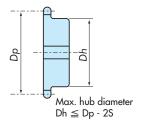
Maximum allowable speed: 60 m/min



Sprockets

- Sprockets must have at least 13 teeth.
- When using Tsubaki RS40 or RS60 sprockets, there may be interference between the bottom of the plastic cover and the sprocket hub depending on the number of teeth. When using Tsubaki standard sprockets having the number of teeth shown in the table below, the hub diameter (Dh) should be machined to sizes in the table. (No additional processing is required for sprockets of other sizes or having other numbers of teeth.)
- RF06B chains are BS (ISO B) DIN standard chains, which require 06B sprockets. Tsubaki RF06B sprockets are made-to-order products. Contact a Tsubaki representative for further information.

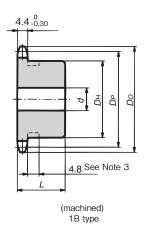
									Dir	mension	s in mm
Teeth	13	14	15	16	17	18	19	20	21	22	23
RS40	-	41	45	49	53	-	61	65	69	73	_
RS60	54										



Maximum hub diameter (Dh) for Snap Cover Chain must be Dp-2S or less.

					Dime	ensions in mm
	RFO6B	RS40	RS50	RS60	RS80	RS100
25	14	16	19	22	29	37

RS35 Sprockets



					1B	type		
Teeth	Pitch diameter	Outside diameter	Bore dic	ımeter d	H	ηp	Approx.	
ieeiii	D _P	Do	Plain bore	Max.	Diameter DH	Length L	mass kg	Material
13*	39.80	44	9.5	18	32	20	0.12	
14	42.80	47	9.5	16.5	30	20	0.12	
15	45.81	51	9.5	19	35	20	0.16	
16	48.82	54	9.5	20	37	20	0.19	
17	51.84	57	9.5	24	41	20	0.22	
18	54.85	60	9.5	24.5	44	20	0.25	
19	57.87	63	9.5	28.5	47	20	0.28	Machined
20	60.89	66	9.5	30	50	20	0.32	carbon
21	63.91	69	9.5	32	53	20	0.36	steel
22	66.93	72	9.5	32	53	20	0.37	
23	69.95	75	9.5	32	53	20	0.40	
24	72.97	78	9.5	32	53	22	0.43	
25	76.00	81	12.7	32	53	22	0.44	
26	79.02	84	12.7	32	53	22	0.45	
27	82.05	87	12.7	32	53	22	0.46	
28	85.07	90	12.7	32	53	22	0.48	

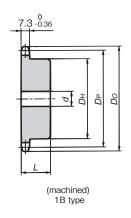
Note: 1. Maximum bore diameter represents the general case. Bore diameters and key/keyway contact stress should be determined based on general mechanical design.

2. Teeth for all sprockets are hardened.

3. * The sprocket with 13 teeth has a groove in the outer circumference of the hub. The outside

- diameter of the groove is 28mm.

RS40 Sprockets



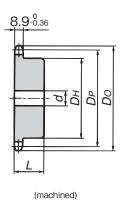
					1B	type		
Teeth	Pitch diameter	Outside diameter	Bore dic	ımeter d	He	ηρ	Approx.	
ieeiii	D _P	Do	Plain bore	Max.	Diameter DH	Length L	mass kg	Material
13	53.07	58	9.5	20	37	22	0.23	
14	57.07	63	9.5	24	42	22	0.28	
15	61.08	67	9.5	28.5	46	22	0.34	
16	65.10	71	12.7	30	50	22	0.40	
1 <i>7</i>	69.12	76	12.7	32	54	22	0.46	
18	73.14	80	12.7	35	57	22	0.51	
19	77.16	84	12.7	39.5	62	22	0.59	Machined
20	81.18	88	12.7	45.5	67	25	0.76	carbon
21	85.21	92	12.7	45.5	71	25	0.85	steel
22	89.24	96	12.7	50	75	25	0.95	
23	93.27	100	12.7	50	77	25	1.0	
24	97.30	104	12.7	42	63	25	0.84	
25	101.33	108	12.7	42	63	25	0.88	
26	105.36	112	12.7	42	63	25	0.92	
27	109.40	116	12.7	42	63	25	0.96	
28	113.43	120	12.7	42	63	25	1.0	

Note: 1. Maximum bore diameter represents the general case. Bore diameters and key/keyway contact stress should be determined based on general mechanical design.

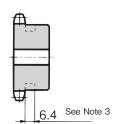
2. Teeth for all sprockets are hardened.

RS Sprockets

RS50 Sprockets



1B type



					1B	type		
Teeth	Pitch diameter	Outside diameter	Bore dic	ımeter d	H	ηρ	Approx.	
iceni	D _P	Do	Plain bore	Max.	Diameter <i>D</i> н	Length L	mass kg	Material
13*	66.33	74	12.7	32	51	25	0.46	
14	71.34	79	12.7	32	52	25	0.52	
15	76.35	84	12.7	35	57	25	0.62	
16	81.37	89	12.7	40	62	25	0.72	
1 <i>7</i>	86.39	94	12.7	45.5	67	25	0.83	
18	91.42	100	12.7	47.5	72	28	1.0	
19	96.45	105	12.7	47.5	73	28	1.1	Machined
20	101.48	110	12.7	47.5	73	28	1.2	carbon
21	106.51	115	15.9	47.5	73	28	1.2	steel
22	111.55	120	15.9	47.5	73	28	1.3	
23	116.59	125	15.9	47.5	73	28	1.3	
24	121.62	130	15.9	47.5	73	28	1.4	
25	126.66	135	15.9	47.5	73	28	1.5	
26	131.70	140	18	48	73	28	1.5	
27	136.74	145	18	48	73	28	1.5	
28	141.79	150	18	48	73	28	1.6	

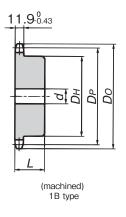
Note: 1. Maximum bore diameter represents the general case. Bore diameters and key/keyway contact stress should be determined based on general mechanical design.

2. Teeth for all sprockets are hardened.

3. * The sprocket with 13 teeth has a groove in the outer circumference of the hub. The outside

- diameter of the groove is 47mm.

RS60 Sprockets

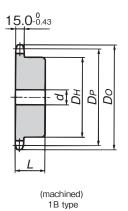


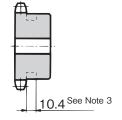
					1B	type		
Teeth	Pitch diameter	Outside diameter	Bore dic	ımeter d	H	np	Approx.	
ieeiii	D _P	Do	Plain bore	Max.	Diameter <i>D</i> н	Length L	mass kg	Material
12	73.60	83	12.7	32	51	32	0.69	
13	79.60	89	15.9	35	57	32	0.81	
14	85.61	95	15.9	39.5	62	32	0.96	
15	91.63	101	15.9	45.5	68	32	1.1	
16	97.65	107	15.9	47.5	73	32	1.3	
1 <i>7</i>	103.67	113	15.9	47.5	73	32	1.4	
18	109.70	119	15.9	55	83	40	2.0	Machined
19	115.74	126	15.9	55	83	40	2.1	carbon
20	121.78	132	15.9	55	83	40	2.2	steel
21	127.82	138	15.9	55	83	40	2.3	
22	133.86	144	15.9	55	83	40	2.5	
23	139.90	150	18	55	83	40	2.5	
24	145.95	156	18	55	83	40	2.6	
25	151.99	162	18	55	83	40	2.7	
26	158.04	168	18	55	83	40	2.9	
27	164.09	174	18	55	83	40	3.0	
28	170.14	181	18	55	83	40	3.1	

Note: 1. Maximum bore diameter represents the general case. Bore diameters and key/keyway contact stress should be determined based on general mechanical design.

2. Teeth for all sprockets are hardened.

RS80 Sprockets





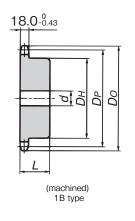
					1B	type		
Teeth	Pitch diameter	Outside diameter	Bore dic	ımeter d	H	ub	Approx.	
leem	D _P	Do	Plain bore	Max.	Diameter DH	Length L	mass kg	Material
9*	74.26	85	15.9	35	58	40	0.87	
10	82.20	93	15.9	32	52	40	0.97	
11	90.16	101	15.9	38	60	40	1.2	
12	98.14	108	19	45	67	40	1.5	
13	106.14	118	19	50	77	40	1.9	
14	114.15	127	19	50	77	40	2.0	
15	122.17	135	19	63	93	40	2.6	
16	130.20	143	19	63	93	40	2.8	
17	138.23	151	19	63	93	40	3.0	
18	146.27	159	19	63	93	40	3.2	Machined
19	154.32	167	23	63	93	40	3.4	carbon steel
20	162.37	176	23	63	93	40	3.6	0.00.
21	170.42	184	23	63	93	40	3.8	
22	178.48	192	28	75	107	45	4.8	
23	186.54	200	28	75	107	45	5.1	
24	194.60	208	28	75	107	45	5.4	
25	202.66	216	28	75	107	45	5.6	
26	210.72	224	28	75	107	45	5.9	
27	218.79	233	28	75	107	45	6.1	
28	226.86	241	28	75	107	45	6.5	

Note: 1. Maximum bore diameter represents the general case. Bore diameters and key/keyway contact stress should be determined based on general mechanical design.

2. Sprockets in the shaded part have hardened teeth.

3. * The sprocket with 9 teeth has a groove in the outer circumference of the hub. The outside diameter of the groove is 44mm.

■ RS100 Sprockets



	Du I	0				type		
Teeth	Pitch diameter	Outside diameter	Bore dic	ımeter d	H	np	Approx.	
iceiii	D _P	Do	Plain bore	Max.	Diameter DH	Length L	mass kg	Material
10	102.75	117	18	43	65	50	1.9	
11	112.70	127	23	50	75	50	2.3	
12	122.67	138	23	57	86	50	2.9	
13	132.67	148	23	59	88	50	3.1	
14	142.68	158	23	59	88	50	3.6	
15	152.71	168	28	66	98	50	4.2	
16	162.75	179	28	66	98	50	4.6	
17	172.79	189	28	75	107	50	5.3	
18	182.84	199	28	75	107	50	5.7	Machined
19	192.90	209	28	75	107	50	6.1	carbon
20	202.96	220	28	75	107	50	6.5	steel
21	213.03	230	28	75	107	50	7.0	
22	223.10	240	33	80	117	56	7.9	
23	233.17	250	33	80	117	56	8.4	
24	243.25	260	33	80	117	56	8.8	
25	253.32	270	33	80	117	56	9.3	
26	263.41	281	33	80	117	56	9.8	
27	273.49	291	33	80	117	56	10.4	
28	283.57	301	33	80	117	56	10.9	

Note: 1. Maximum bore diameter represents the general case. Bore diameters and key/keyway contact stress should be determined based on general mechanical design.

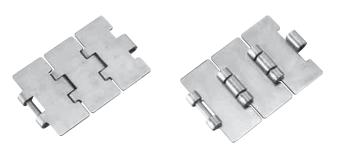
2. Sprockets in the shaded part have hardened teeth.

Stainless Steel Top Chain TT

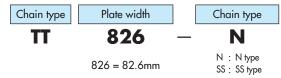
Straight Running

Features

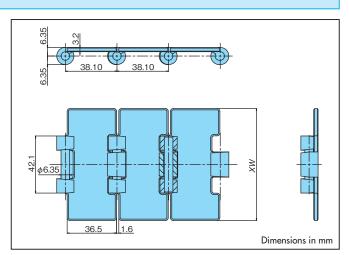
- Worldwide standard shape. All parts are made of stainless steel.
- All edges of the top plates are smoothly chamfered, ensuring smooth lateral plate-to-plate transfers between adjacent chain.
- lacktriangle The shape of the top surface, which laps the hinge area and top plates, provides stable transport of conveyed goods.
- Top plates are smoothly polished with a grinder.



Model Numbering



Note: Do not leave spaces between letters and symbols.



N Type

General-use type priced lower than SS type. Top plates are made of martensitic

SS Type

Made of type 304 stainless steel or equivalent. Highly resistant to corrosion and is clean and sanitary.

Note: Contact a Tsubaki representative if the chain will be used in extreme environments.

Chain

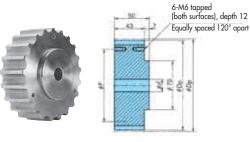
N	SS	Top plate	Max. allowable load kN {kgf}		Approx. mass
Tsubaki model no.	Tsubaki model no.	width XW mm	N	SS	kg/m
TT635-N	TT635-SS	63.5			2.3
TT762-N	TT762-SS	76.2			2.5
TT826-N	TT826-SS	82.6			2.6
TT1016-N	TT1016-SS	101.6	2.	16	3.0
TT1143-N	TT1143-SS	114.3	{2:	20}	3.3
Π1270-N	TT1270-SS	127.0			3.8
TT1524-N	TT1524-SS	152.4			4.2
TT1905-N	TT1905-SS	190.5			5.1

- Note: 1. Standard chain length is 80 links.
 2. No additional machining or processing should be performed on type N top plates. Cracking or fracturing may occur during bending processes.

 3. Operating temperature range: -20°C to 400°C

 - 4. Max. allowable speed: 100 m/min (with lube) 60 m/min (no lube)

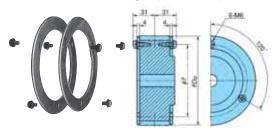
Steel Sprockets (with Plain Bore)



Dimensions in m										
Tsubaki model	Actual	Effective	Pitch diameter	Outside diameter	Р		ore eter d	Approx. mass kg	Material	
no.	teeth	teeth	Dp	Do	,	Plain bore	Max.			
TT912T	19	91/2	117.34	117	92		40	2.8	Carbon steel	
TT1012T	21	101/2	129.26	129	104	18		3.7		
TT1112T	23	111/2	141.22	141	116	10		4.3		
TT1212T	25	121/2	153.20	153	128			5.0		

Note: Teeth on all sprockets have not been hardened.

Steel Guide Rings (for TT Sprockets)



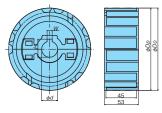
Dimensions in mm

Tsubaki model no.	Applicable sprocket no.	Outside diameter Do	Installed pitch diameter P	Approx. mass kg
TT912G	TTP912T TT912T	116	92	0.17
TT1012G	TTP1012T TT1012T	128	104	0.19
TT1112G	TTP1112T TT1112T	140	116	0.21
TT1212G	TTP1212T TT1212T	152	128	0.23

Note: One set consists of two (2) guide rings and six (6) mounting bolts.

Engineering Plastic Sprockets





- 1 1. 11		EU	Pitch	Outside	Bore	Key	way	Approx. mass	
Tsubaki model no.	model no. Actual teeth Effective teeth diameter Dp		diameter <i>Dp</i>	diameter Do	diameter d	W	Н	kg	
TP-C12053NT-SPR	21			129	25	8	28.3	0.50	
TP-C12054NT-SPR		101/2	129.26		30	8	33.3	0.49	
TP-C12055NT-SPR		1072	127.20		35	10	38.3	0.48	
TP-C12056NT-SPR					40	12	43.3	0.46	
TP-C12099NT-SPR		11½	141.22	142	25	8	28.3	0.53	
TP-C12100NT-SPR	23				30	8	33.3	0.50	
TP-C12101NT-SPR	23				35	10	38.3	0.50	
TP-C12102NT-SPR					40	12	43.3	0.53	
TP-C12065NT-SPR					25	8	28.3	0.66	
TP-C12066NT-SPR	25	121/2	153.20	154	30	8	33.3	0.64	
TP-C12067NT-SPR	23	1 272	153.20	154	35	10	38.3	0.63	
TP-C12068NT-SPR					40	12	43.3	0.62	

Note: 1. Standard product.

- 2. Operating temperature range: -20°C to 80°C

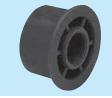
 3. Bolt tightening torque: 6 N·m {0.61 kgf·m}

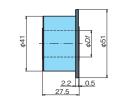
 4. When assembling the halves of the sprocket, do not mix the halves with halves from other sprockets.

 5. Material: Nut: Brass + nickel plating; Bolt: Stainless steel; Body: Reinforced polyamide (color: black)
- 6. Type: Split 7. Keyway specifications: DIN 6885 key seat

Return Rollers for Stainless Steel Top Chain

Return Roller (for stainless steel top chain)





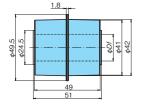
Note: Use return rollers on the return way of the conveyor to support the top surface of the chain.

Tsubaki model no.	Shaft diameter Df
TP-C12822NT-RR	20.5

Note: 1. Operating temperature range: -20°C to 60°C (except in hot water environments)
2. Material: High-density polyethylene; Color: Black

■ Return Roller (for stainless steel top chain)





Tsubaki model no.	Shaft diameter Df
TP-C12862NT-DR	20.5

Note: 1. Operating temperature range: -20°C to 60°C (except in hot water environments) 2. Material: High-density polyethylene; Color: Black

■ Spacer (for 82.6mm plate width)



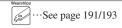


Tsubaki model no.	Shaft diameter Df
TP-C12824NT-DT	20.5

Note: 1. For plate widths other than 82.6mm, cut PVC pipe or similar material to the required width and assemble with the return roller shown above.

- 2. Operating temperature range: -20°C to 80°C (except in hot water environments) 3. Material: Polyamide; Color: Black





Stainless Steel Top Chain TS/TSA

Straight Running

Features

- Stainless steel conveyor chain with top plates attached to ANSI double pitch chain. Standard sprockets for ANSI double pitch chains can be used.
- Base chain is available in NP (nickel-plated), Lambda, or SS (all stainless steel) specifications.
- Available in a wide variety of special finishes to suit various applications and work environments. Includes hard chromium plated, buffed top plates, and heat-treated top plates for improved wear resistance.



TS Direction of travel

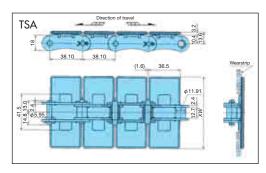
38.10 38.10

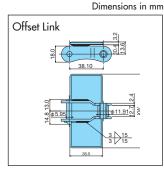
(1.6) 36.5

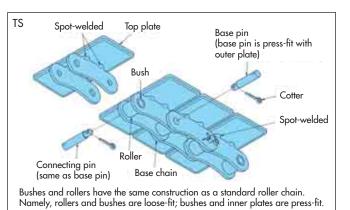
Wearstrip

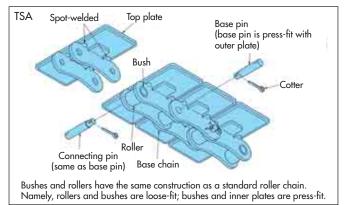
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Model Numbering



Note: Do not leave spaces between letters and symbols.

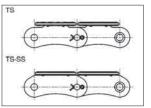
NP Type

Base chain is nickel-plated, providing a modest level of corrosion resistance.

Nickel-plated Lambda lube-free base chain uses oil-

Lambda Type Nickel-plated Lambda lube-tree base chain uses oil impregnated sintered bushes.

All parts are 304 stainless steel for high corrosion



SS Type

SS base chain plates differ slightly in shape.

Chain

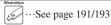
	Туре	Standard	NP	Lambda	SS	Approx. mass	Top plate width
Max. a	llowable load kN {kgf}		2.94{300}		1.03{105}	kg/m	XW mm
		TS550	TS550-NP	TS550-LMC-NP	TS550-SS	2.5	55.0
		TS635	TS635-NP	TS635-LMC-NP	TS635-SS	2.7	63.5
		TS762	TS762-NP	TS762-LMC-NP	TS762-SS	3.0	76.2
		TS826	TS826-NP	TS826-LMC-NP	TS826-SS	3.2	82.6
		TS950	TS950-NP	TS950-LMC-NP	TS950-SS	3.5	95.0
TS	Tsubaki model no.	TS1016	TS1016-NP	TS1016-LMC-NP	TS1016-SS	3.7	101.6
		TS1100	TS1100-NP	TS1100-LMC-NP	TS1100-SS	3.9	110.0
		TS1143	TS1143-NP	TS1143-LMC-NP	TS1143-SS	4.0	114.3
		TS1270	TS1270-NP	TS1270-LMC-NP	TS1270-SS	4.3	127.0
		TS1524	TS1524-NP	TS1524-LMC-NP	TS1524-SS	4.9	152.4
		TS1905	TS1905-NP	TS1905-LMC-NP	TS1905-SS	5.8	190.5
		TSA550	TSA550-NP	TSA550-LMC-NP	TSA550-SS	2.8	55.0
		TSA635	TSA635-NP	TSA635-LMC-NP	TSA635-SS	3.0	63.5
		TSA762	TSA762-NP	TSA762-LMC-NP	TSA762-SS	3.3	76.2
		TSA826	TSA826-NP	TSA826-LMC-NP	TSA826-SS	3.5	82.6
		TSA950	TSA950-NP	TSA950-LMC-NP	TSA950-SS	3.8	95.0
TSA	Tsubaki model no.	TSA1016	TSA1016-NP	TSA1016-LMC-NP	TSA1016-SS	4.0	101.6
		TSA1100	TSA1100-NP	TSA1100-LMC-NP	TSA1100-SS	4.2	110.0
		TSA1143	TSA1143-NP	TSA1143-LMC-NP	TSA1143-SS	4.3	114.3
		TSA1270	TSA1270-NP	TSA1270-LMC-NP	TSA1270-SS	4.6	127.0
		TSA1524	TSA1524-NP	TSA1524-LMC-NP	TSA1524-SS	5.2	152.4
		TSA1905	TSA1905-NP	TSA1905-LMC-NP	TSA1905-SS	6.1	190.5

Offset Links (for TS and TSA)

Time		Offset links	(for TS and TSA)		Top plate width	
Туре	Standard	NP	Lambda	SS	XW mm	
	TS550-OL	TS550-NP-OL	TS550-LMC-NP-OL	TS550-SS-OL	55.0	
	TS635-OL	TS635-NP-OL	TS635-LMC-NP-OL	TS635-SS-OL	63.5	
	TS762-OL	TS762-NP-OL	TS762-LMC-NP-OL	TS762-SS-OL	76.2	
	TS826-OL	TS826-NP-OL	TS826-LMC-NP-OL	TS826-SS-OL	82.6	
	TS950-OL	TS950-NP-OL	TS950-LMC-NP-OL	TS950-SS-OL	95.0	
Tsubaki model no.	TS1016-OL	TS1016-NP-OL	TS1016-LMC-NP-OL	TS1016-SS-OL	101.6	
	TS1100-OL	TS1100-NP-OL	TS1100-LMC-NP-OL	TS1100-SS-OL	110.0	
	TS1143-OL	TS1143-NP-OL	TS1143-LMC-NP-OL	TS1143-SS-OL	114.3	
	TS1270-OL	TS1270-NP-OL	TS1270-LMC-NP-OL	TS1270-SS-OL	127.0	
	TS1524-OL	TS1524-NP-OL	TS1524-LMC-NP-OL	TS1524-SS-OL	152.4	
	TS1905-OL	TS1905-NP-OL	TS1905-LMC-NP-OL	TS1905-SS-OL	190.5	

Note: 1. Operating temperature range
Standard, NP, and Lambda: -10°C to 150°C
SS: -20°C to 400°C
2. Max. allowable speed
Standard, NP: 120 m/min (with lube), 60 m/min (no lube)

Lambda: 60 m/min (no lube)
SS: 70 m/min (with lube), 45 m/min (no lube)
3. Standard ANSI #C2060 sprockets having at least 19 teeth can be used.





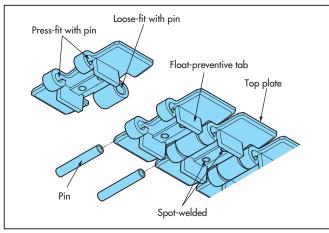
...See page 203–206

Stainless Steel Top Chain TTU

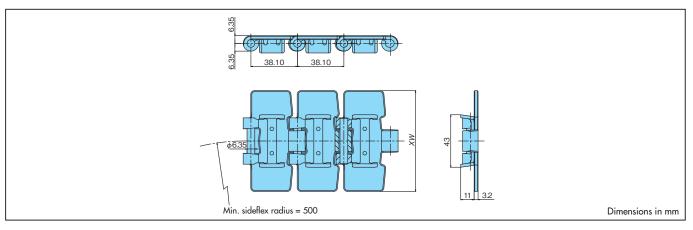
Features

- Standard stainless steel chain designed for use in sideflexing conveyors. All parts are made of stainless steel.
- All edges of the top plates are smoothly chamfered, ensuring smooth lateral plate-to-plate transfers between adjacent chains.
- The shape of the top surface, which laps the hinge area and top plates, provides stable transport of conveyed goods.
- Top plates are smoothly polished with a grinder.





Sideflexing



Model Numbering



826 = 82.6mm

Note: Do not leave spaces between letters and symbols.

Chain

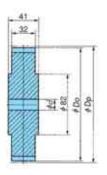
Tsubaki model no.	Top plate width XW mm	Max. allowable load kN {kgf}	Approx. mass kg/m
TTU762-N	76.2		2.8
TTU826-N	82.6	2.16	3.0
TTU1143-N	114.3	{220}	3.7
TTU1905-N	190.5		5.5

Note: 1. Standard chain length is 80 links.

- Top plates and pins are made of martensitic stainless steel.
 Top plates and pins are made of martensitic stainless steel.
 TIU Stainless Steel Top Chain underwent design improvements in October 2003 and July 2009, and cannot be connected to older existing TTU chain. When replacing, the chain must be replaced as a single unit.
 As of October 2003, the minimum sideflex radius has changed for type TTU chain. Be sure to check minimum sideflex radius when replacing.
- 5. Operating temperature range: -20°C to 400°C
- 6. Max. allowable speed: 80 m/min (with lube), 50 m/min (no lube)

Steel Sprockets (with Plain Bore)

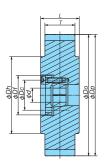




Dimensions in mm

Tsubaki model no.	Actual teeth	Effective teeth	Pitch diameter Dp	Outside diameter Do	Bore die	ameter d	Approx. mass	Material	
isubaki model no.	Actual feeth	Effective feetin	Pitch diameter Up	Outside diameter Do	Plain bore	Max.	kg	Malerial	
TTU1012T	21	101/2	129.26	129			3.3	Carbon steel	
TTU1112T	23	111/2	141.22	141	16	55	3.9		
TTU1212T	25	121/2	153.20	153			4.6		

Steel Lock Sprockets



■ Lock Sleeve Dimensions

Sleeve no.	Df diameter mm	Dc diameter mm	Bolt size M x L	Bolt tightening torque N·m	
S2	42.0	32.0	M5×18	8.3	
S3	48.5	38.5	M5×20	8.3	
S4	56.0	46.0	M5×20	8.3	
S5	66.0	56.0	M5×22	8.3	

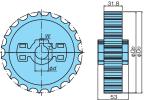
Tsubaki model no.	Actual teeth	Pitch diameter <i>Dp</i> mm	Outside diameter <i>Do</i> mm	Facewidth T mm	Hub diameter Dh mm	Length L mm	
TTU1012T	21	129.26	129			41	
TTU1112T	23	141.22	141	32.0	82		
TTU1212T	25	153.20	20 153				

■ Sleeve Combinations and Transfer Torque Values

Sleeve no.	\$2				S3		\$4			S5								
Bore diameter d mm		15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45
		Max. allowable transfer torque N·m																
	TTU1012T	120	1.40	1.50	147	177	104	20.5										
Tsubaki model no.	TTU1112T	139	39 149 158	10/ 1/	1//	180	205 1	167	174	174 195	279	296	325	442	465	586	628	
	TTU1212T	174	186	198	209	221	232	256										

Engineering Plastic Sprockets





Dimensions in I												
+ 1 1: 11	Actual	Effective	Pitch	Outside	Bore	Keyway		Approx. mass				
Tsubaki model no.	teeth	teeth	diameter <i>Dp</i>	diameter Do	diameter d	W	Н	kg				
TP-C12061NT-SPR	21		129.26	129	25	8	28.3	0.42				
TP-C12062NT-SPR		10½			30	8	33.3	0.41				
TP-C12063NT-SPR		1072	127.20		35	10	38.3	0.39				
TP-C12064NT-SPR					40	12	43.3	0.39				
TP-C12109NT-SPR		111/2	141.22	142	25	8	28.3	0.43				
TP-C12110NT-SPR	23				30	8	33.3	0.41				
TP-C12111NT-SPR	23				35	10	38.3	0.44				
TP-C12112NT-SPR					40	12	43.3	0.39				
TP-C12073NT-SPR					25	8	28.3	0.45				
TP-C12074NT-SPR	25	121/2	153.20	154	30	8	33.3	0.43				
TP-C12075NT-SPR	25	1 272	153.20	154	35	10	38.3	0.42				
TP-C12076NT-SPR					40	12	43.3	0.42				
				·								

Note: 1. Standard product.

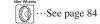
2. Operating temperature range: -20°C to 80°C

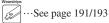
3. Bolt tightening torque: 6 N·m {0.61 kgf·m}

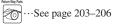
4. When assembling the halves of the sprocket, do not mix the halves with halves from other sprockets.

5. Material: Nut: Brass + nickel plating; Bolt: Stainless steel; Body: Reinforced polyamide (color: black)

6. Type: Split
7. Keyway specifications: DIN 6885 key seat







Stainless Steel Top Chain TTKU

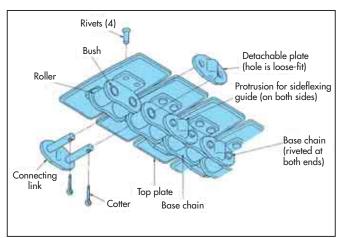
Sideflexing

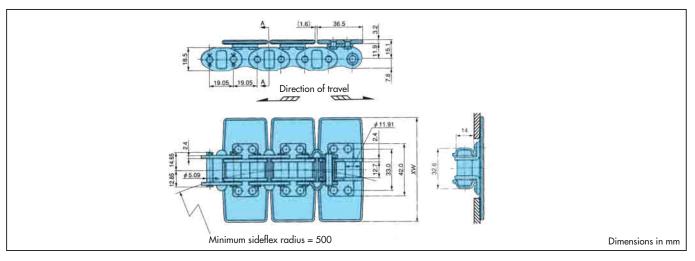
Features

- Sideflexing chain with protrusions on the outer plates to guide sideflexing movement. Larger allowable load than TTU stainless steel top chain.
- The chain can be detached from the wearstrip at curved sections to facilitate maintenance.
- Suitable for light loads at slow speeds. (The chain may lift up at corner turns when transporting large loads at high speeds.)



Be sure to specify chain length using the number of links in the base chain. One TTKU top plate is attached to every other link of the base chain, which means that the number of links in the chain is twice the number of top plates.





Model Numbering

Chain type Plate width

TTKU 826

826 = 82.6mm

Note: Do not leave spaces between letters and symbols.

Chain

Tsubaki model no.	Top plate width XW mm	Max. allowable load kN {kgf}	Approx. mass kg/m
TTKU826	82.6	2.84	3.8
TTKU1100	110.0	{280}	4.5

Note: 1. Standard chain length is 160 links (the number of links on the base chain).

- 2. SS-type chain with max. allowable load of 0.69 kN {70 kgf} can also be manufactured.
- 3. Used for low-speed (45 m/min or less) and horizontal curved conveyance.
- 4. Operating temperature range: -10°C to 150°C
- 5. Max. allowable speed: 45 m/min (with lube), 45 m/min (no lube)

Material

	Material
Top plates	430 stainless steel
Base chain	Alloy steel
Rivets	13-Cr

Sprockets

Standard ANSI #60 sprockets having at least 12 teeth can be used.







...See page 203–206

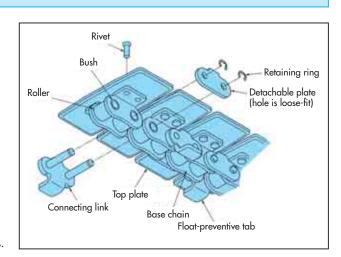
Stainless Steel Top Chain TRU

Features

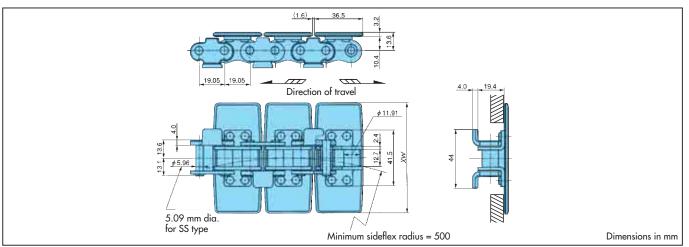
 Sideflexing chain equipped with float-preventive tabs. Larger allowable load than TTU stainless steel top chain.



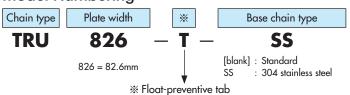
Be sure to specify chain length using the number of links in the base chain. One TRU top plate is attached to every other link of the base chain, which means that the number of links in the chain is twice the number of top plates.



Sideflexina



Model Numbering



Note: Do not leave spaces between letters and symbols.

Chain

Standard	SS	Top plate	Top plate width XW mm		Approx. mass
Tsubaki model no.	Tsubaki model no.	WIGHT XVV IIIIII	Standard	SS	kg/III
TRU762-T	TRU762-T-SS	76.2			3.9
TRU826-T	TRU826-T-SS	82.6			4.1
TRU1016-T	TRU1016-T-SS	101.6	4.02	0.69	4.6
TRU1100-T	TRU1100-T-SS	110.0	{410}	{70}	4.8
TRU1143-T	TRU1143-T-SS	114.3			4.9
TRU1270-T	TRU1270-T-SS	127.0			5.2

Note: 1. Operating temperature range Standard: -10°C to 150°C SS: -20°C to 400°C

2. Max. allowable speed
Standard: 100 m/min (with lube), 60 m/min (no lube)
SS: 70 m/min (with lube), 45 m/min (no lube)

3. Standard chain length is 160 links (the number of links on the base chain).

Material

	Standard	SS
Top plates	430 stainless steel	304 stainless steel
Base chain	Alloy steel	304 stainless steel
Rivets	13-Cr	304 stainless steel

Sprockets

Standard ANSI #60 sprockets having at least 19 teeth can be used.







···See page 191/193

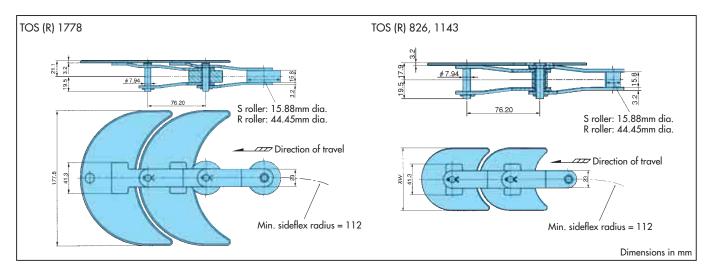
Stainless Steel Top Chain TO

Sideflexing

Features

 Stainless steel chain designed for use in horizontal conveyors. Ideal for conveyance in tight spaces.





Model Numbering

Chain type	Plate width		Base chain type
TOS	826	_	SS
S : Small roller R : Large roller	826 = 82.6mm		[blank] : Standard SS : 304 stainless steel

Note: Do not leave spaces between letters and symbols.

Chain (Standard Type)

S roller	R roller	Top plate	Max. allowable	Approx. r	nass kg/m	Mate	erial
Tsubaki model no.	Tsubaki model no.	width XW mm	load kN {kgf}	S roller	R roller	Top plates	Base chain
TOS826	TOR826	82.6	2.94	4.1	5.9		
TOS1143	TOR1143	114.3	{300}	4.8	6.9	430 stainless steel	Alloy steel
TOS1778	TOR1778	177.8	(300)	6.3	8.1		

Note: 1. Operating temperature range: -10°C to 150°C 2. Max. allowable speed: 60 m/min (with lube), 60 m/min (no lube) 3. Made-to-order product. Standard chain length is 40 links.

Chain (SS Type)

S roller	R roller	Top plate	Max. allowable	Approx. r	nass kg/m	Mate	erial
Tsubaki model no.	Tsubaki model no.	width XW mm	load kN {kgf}	S roller	R roller	Top plates	Base chain
TOS826-SS	TOR826-SS	82.6	1 77	4.1	5.9		
TOS1143-SS	TOR1143-SS	114.3	1.77 {180}	4.8	6.9	304 stainless steel	304 stainless steel
TOS1778-SS	TOR1778-SS	177.8	(100)	6.3	8.1		

1. Operating temperature range: -20°C to 400°C 2. Max. allowable speed: 60 m/min (with lube), 60 m/min (no lube) 3. Made-to-order product. Standard chain length is 40 links.

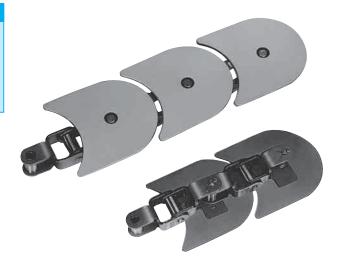


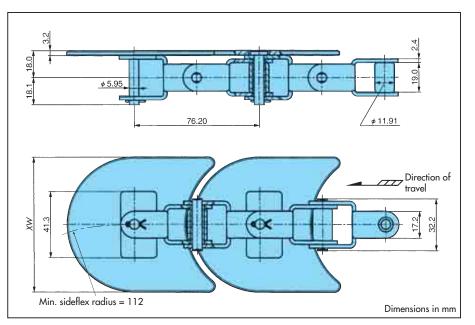
Sideflexing

Stainless Steel Top Chain TU

Features

 Stainless steel chain designed for use in horizontal conveyors. Can be bent vertically, providing more flexibility in the layout of conveyor lines, including three-dimensional layouts.





Model Numbering

	•	
Chain type	Plate width	Base chain type
TU	826	 SS
	826 = 82.6mm	blank] : Standard S : 304 stainless steel

Note: Do not leave spaces between letters and symbols.

Chain

	Standard	SS	T 1. 14 II 11 A		CC T 1.		4 11 11 4		М	aterial									
	Sianaara	33													Approx. mass	Standard		SS	
ı	Tsubaki model no.	Tsubaki model no.	WIGHT XVV IIIIII		kg/III	Top plates	Base chain	Top plates	Base chain										
	TU826	TU826-SS	82.6	0.98	3.8	430 stainless steel	Alloy steel	204 steriplans steel	304 stainless steel										
	TU1143	TU1143-SS	114.3	{100}	4.5	430 Sidiffless steel	Alloy sieei	304 Sidiffless steel	304 stainless steel										

Note: 1. Operating temperature range Standard: -10°C to 150°C

SS: -20°C to 400°C 2. Max. allowable speed

Standard and SS: 60 m/min (with lube), 60 m/min (no lube)

3. Made-to-order product. Standard chain length is 40 links.



Plastic Modular Chain

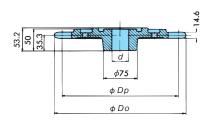
Sprockets for TO/TU Chain

Steel

Applicable chain

TO, TU

Sprockets for TO Chain (with Plain Bore)



Dimensions in mm

Applicable chain	Tsubaki model no.	Actual teeth	Effective teeth	Ditab diameter Do	Pitch diameter Dp Outside diameter Do	Bore dia	ımeter d	Approx.	Material
Applicable chain	isubaki model no.	Actual leem	Lifective feelin	Pirch diameter Dp		Plain bore	Max.	mass kg	Maleriai
Type TOS	TOS1013T	31	101/3	254.59	269	22	45	7.2	FC250
Type TOR	TOR1100T	11	11	270.47	305	23	45	7.6	FC230

Note: Made-to-order product.

Model Numbering

Chain type

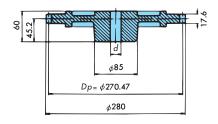
Effective teeth

TOS

1013T

Note: Do not leave spaces between letters and symbols.

Sprockets for TU Chain (with Plain Bore)



Dimensions in mm

Tsubaki model no	Actual tooth	Effective teeth	Bore did	ameter d	Approx. mass kg	Material
Isubakı model no.	Actual teeth	Effective feelin	Plain bore	Max.		Material
TU1100T	11	11	23	50	7.4	FC250

Note: Made-to-order product.

Model Numbering

Chain type

Effective teeth

TU

1100T

Note: Do not leave spaces between letters and symbols.

Stainless Steel Top Chain TS-CTP/HTP

Design Stock
Straight Running

TS-CTP Features

• Narrower gap between slat top surfaces prevents conveyed objects from catching or becoming snagged.

Chain

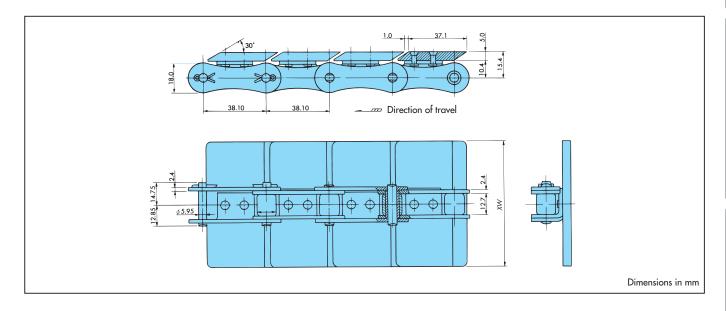
Tsubaki model no.	Top plate width XW mm
TS635-CTP	63.5
TS762-CTP	76.2

Note: Made-to-order product. Backflex radius is larger than standard TS chain. Contact a Tsubaki representative when using TS-CTP chain to replace Tsubaki standard TS chain.

Model Numbering



Note: Do not leave spaces between letters and symbols.



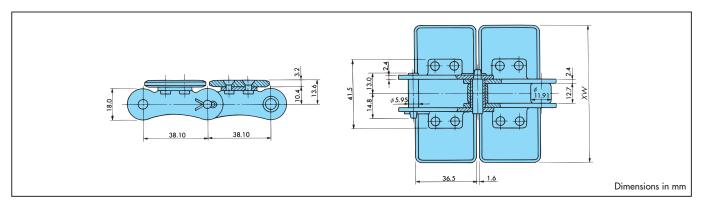
TS-HTP Features

• The carbon steel top plate is heat treated for improved resistance to damage.

Tsubaki model no.	Top plate width XW mm
TS550-HTP	55.0
TS635-HTP	63.5
TS762-HTP	76.2
TS826-HTP	82.6
TS950-HTP	95.0
TS1016-HTP	101.6

Note: 1. Top plates hardened to HRC 40+ (base chain standard carbon steel).

- 2. Made-to-order product.
- 3. Top plates are riveted to base chain.



Plastic Guide Rails

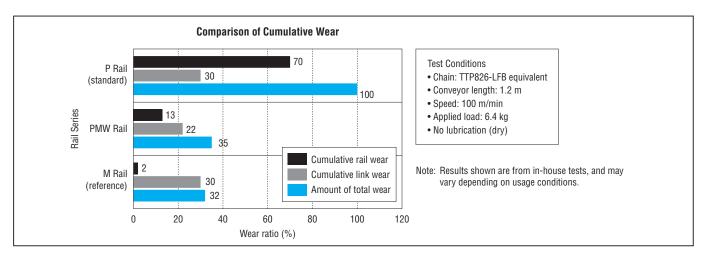
Plastic Rail Specifications

P Plastic Rails Code: P

- Conventionally used for general-purpose applications; manufactured from UHMW-PE (ultra-high molecular weight polyethylene).
- · Recommended for use with stainless steel chains.
- When used in combination with plastic chains, it is recommended that they be used under wet (lubricated) conditions.
 (When used under dry "non-lubricated" conditions, there is the potential for the generation of large amounts of wear dust.)
- Operating temperature range: -20°C to 60°C
- Do not use in environments where rail components will be exposed to steam.
- Same as standard grade of Solidur®

PMW Plastic Rails Code: PMW

- Superior wear resistance and low friction (compared to P Plastic Rails).
- Compared to P Plastic Rails, can reduce amount of wear dust generated to the level of M Plastic Rails.
- Can reduce coefficient of friction of chain to approximately 20% of P Plastic Rail levels.
- Operating temperature range: -20°C to 60°C
- Do not use in environments where rail components will be exposed to steam.

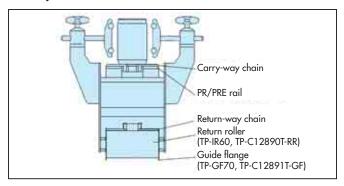


M Plastic Rails Code: M

- Plastic rail designed specifically for dry conditions (do not use under wet conditions).
- Especially recommended when generation of wear dust may be a source of problems.
- Operating temperature range: –20°C to 80°C

Type PR/PRE

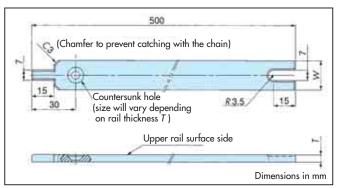
• Conveyor Cross Section



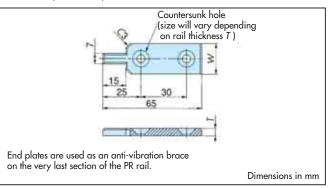
Available Materials

P plastic rail (color: white)
PMW plastic rail (color: white)
M plastic rail (for dry use) (color: blue)

• PR Rail



• PRE Rail (End Plate)



Tsubaki model no.	Т	W	Material	Operating temperature range °C	Screw for countersunk section
PRE520-PMW	_	20	PMW plastic rail	-20 to 60	M5 flathead
PRE520-M	3	20	M plastic rail	-20 to 80	screw

Operating temperature range °C Screw for countersunk section Tsubaki W Material Τ model no. PR520-PMW PMW plastic rail -20 to 60 M5 flathead 5 20 PR520-M M plastic rail -20 to 80 screw

- Note: 1. M plastic rail is specifically designed for dry applications.
 - 2. See page 193 for PH plastic rail.
 - 3. PMW plastic rail has a notch on the convex portion to differentiate it from P plastic rail and PH plastic rail.

Model Numbering



Note: Do not leave spaces between letters and symbols.

solidur

Plastic Guide Rails

Solidur® is a registered trademark of Quadrant Polypenco Japan Ltd.

Solidur® is an ultra-high molecular weight polyethylene (UHMW-PE) and is commonly used in rails and tracks. A rich selection of standard grades is available.

Material Grades								
Grade	10-100	10-301	10-801	16-100E	LV-301	LV-801	84-100	
Color	White	Green	Black	White	Green	Black	White	
Special features	Standard			Anti-thermal degradation	Special compound for guide rails		High-density polyethylene	
Grade	10-605SS	10-365CP	10-806	10-826	10-100EX	10-301EX	10-806EX	
Color	Yellow	Greenish brown	Black	Black	White	Green	Black	
Special features	Anti-wear (high) Anti-static UV		UV stabilized	Extrusio	n grade	Extrusion grade and anti-static		

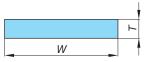
Standard Guide Rails						
■ PH Rails	End Plate Dimensions in mm					
30 M5 countersunk hole	2-M5 countersunk hole					
15 485 500	<u> </u>					
Chain sliding direction	End plates are used on the very last section of the rail.					

5 d - d		Rail thickness T mm						
Rail width W mm	Material grade	Color		3		5		6
**	grade		Rail	End plate	Rail	End plate	Rail	End plate
10	10-100	White			PR-PH510-W%	PR-PH510E-W%		
10	10-301	Green			PR-PH510-G*	PR-PH510E-G*		
11	10-100	White					PR-PH611-W	PR-PH611E-W
- 11	10-301	Green					PR-PH611-G	PR-PH611E-G
12	10-100	White			PR-PH512-W	PR-PH512E-W		
12	10-301	Green			PR-PH512-G	PR-PH512E-G		
15	10-100	White			PR-PH515-W*	PR-PH515E-W*	PR-PH615-W	PR-PH615E-W
13	10-301	Green			PR-PH515-G*	PR-PH515E-G%	PR-PH615-G	PR-PH615E-G
16	10-100	White					PR-PH616-W	PR-PH616E-W
10	10-301	Green					PR-PH616-G	PR-PH616E-G
20	10-100	White	PR-PH320-W	PR-PH320E-W	PR-PH520-W	PR-PH520E-W	PR-PH620-W	PR-PH620E-W
20	10-301	Green	PR-PH320-G	PR-PH320E-G	PR-PH520-G	PR-PH520E-G	PR-PH620-G	PR-PH620E-G
25	10-100	White			PR-PH525-W	PR-PH525E-W	PR-PH625-W	PR-PH625E-W
23	10-301	Green			PR-PH525-G	PR-PH525E-G	PR-PH625-G	PR-PH625E-G
30	10-100	White			PR-PH530-W	PR-PH530E-W	PR-PH630-W	PR-PH630E-W
30	10-301	Green			PR-PH530-G	PR-PH530E-G	PR-PH630-G	PR-PH630E-G
35	10-100	White	PR-PH335-W*	PR-PH335E-W%	PR-PH535-W	PR-PH535E-W	PR-PH635-W	PR-PH635E-W
33	10-301	Green	PR-PH335-G*	PR-PH335E-G*	PR-PH535-G	PR-PH535E-G	PR-PH635-G	PR-PH635E-G
40	10-100	White	PR-PH340-W*	PR-PH340E-W*	PR-PH540-W	PR-PH540E-W	PR-PH640-W	PR-PH640E-W
40	10-301	Green	PR-PH340-G*	PR-PH340E-G*	PR-PH540-G	PR-PH540E-G	PR-PH640-G	PR-PH640E-G
50	10-100	White			PR-PH550-W	PR-PH550E-W	PR-PH650-W*	PR-PH650E-W*
30	10-301	Green			PR-PH550-G	PR-PH550E-G	PR-PH650-G*	PR-PH650E-G*
55	10-100	White			PR-PH555-W	PR-PH555E-W		
33	10-301	Green			PR-PH555-G	PR-PH555E-G		
75	10-100	White			PR-PH575-W	PR-PH575E-W		
/5	10-301	Green			PR-PH575-G	PR-PH575E-G		

Note: 1. :: Made-to-order product

^{2.} Sizes other than those shown above can be fabricated upon request.

Flat Rails

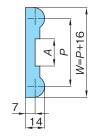


Rail width	Material	Color	Rail thickness T mm			
W mm	grade	Coloi	3	4	5	6
1.5	10-100	White	PR-FR3-15-W-50M	PR-FR4-15-W-40M%	PR-FR5-15-W-30M	PR-FR6-15-W-25M
15	10-301	Green	PR-FR3-15-G-50M	PR-FR4-15-G-40M%	PR-FR5-15-G-30M	PR-FR6-15-G-25M
20	10-100	White	PR-FR3-20-W-50M		PR-FR5-20-W-30M	PR-FR6-20-W-25M
	10-301	Green	PR-FR3-20-G-50M		PR-FR5-20-G-30M	PR-FR6-20-G-25M
25	10-100	White	PR-FR3-25-W-50M	PR-FR4-25-W-40M%	PR-FR5-25-W-30M	PR-FR6-25-W-25M
25	10-301	Green	PR-FR3-25-G-50M	PR-FR4-25-G-40M%	PR-FR5-25-G-30M	PR-FR6-25-G-25M
30	10-100	White	PR-FR3-30-W-50M	PR-FR4-30-W-40M%	PR-FR5-30-W-30M	PR-FR6-30-W-25M
	10-301	Green	PR-FR3-30-G-50M	PR-FR4-30-G-40M%	PR-FR5-30-G-30M	PR-FR6-30-G-25M
35	10-100	White	PR-FR3-35-W-50M	PR-FR4-35-W-40M%	PR-FR5-35-W-30M	PR-FR6-35-W-25M
35	10-301	Green	PR-FR3-35-G-50M	PR-FR4-35-G-40M%	PR-FR5-35-G-30M	PR-FR6-35-G-25M
40	10-100	White	PR-FR3-40-W-50M	PR-FR4-40-W-40M%	PR-FR5-40-W-30M	PR-FR6-40-W-25M
40	10-301	Green	PR-FR3-40-G-50M	PR-FR4-40-G-40M%	PR-FR5-40-G-30M	PR-FR6-40-G-25M
45	10-100	White	PR-FR3-45-W-50M		PR-FR5-45-W-30M	PR-FR6-45-W-25M
45	10-301	Green	PR-FR3-45-G-50M		PR-FR5-45-G-30M	PR-FR6-45-G-25M
50	10-100	White	PR-FR3-50-W-50M	PR-FR4-50-W-40M%	PR-FR5-50-W-30M	PR-FR6-50-W-25M
30	10-301	Green	PR-FR3-50-G-50M	PR-FR4-50-G-40M%	PR-FR5-50-G-30M	PR-FR6-50-G-25M
55	10-100	White	PR-FR3-55-W-50M		PR-FR5-55-W-30M	
55	10-301	Green	PR-FR3-55-G-50M		PR-FR5-55-G-30M	
60	10-100	White	PR-FR3-60-W-50M		PR-FR5-60-W-30M	PR-FR6-60-W-25M%
00	10-301	Green	PR-FR3-60-G-50M		PR-FR5-60-G-30M	PR-FR6-60-G-25M%
	Coil length		50m	40m	30m	25m

Note: 1. : Made-to-order product

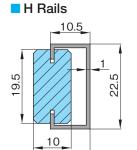
- 2. Sizes other than those shown above can be fabricated upon request.
 3. PR-FR3-20-G-50M is equivalent to PRF320-P-G, PR-FR5-20-G-30M to PRF520-P-G, and PR-FR3-40-G-50M to PRF340-P-G.

B Rails

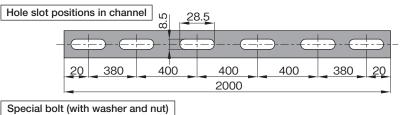


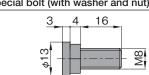
Tsubaki model no.	P mm	W mm	A mm	Length m	Material grade	Color
PR-B40-G-2M	40	56	20			
PR-B50-G-2M	50	66	20	2	10-301	Green
PR-B65-G-2M	65	81	23			

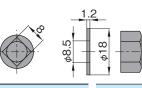
Note: Made-to-order product



15







H Rails				
Tsubaki model no.	Material grade	Color	Length m	
PR-HR-W-2M	10-100	White	2	
PR-HR-G-2M	10-301	Green		

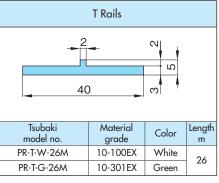
Special channels				
Tsubaki model no.	Material	No. of mounting holes	Length m	
PR-HCSS0-2M	304 stainless	0	2	
PR-HCSS6-2M	steel	6		

Special bolts				
Tsubaki model no.	Material	Remarks		
PR-HBNP1S	Unichrome plated	With washer		
PR-HBSS1S	304 stainless steel	and nut		

Note: Made-to-order product

Standard Extruded Guide Rails

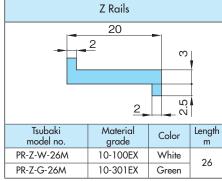
T Rails



T-403 Rails				
-	3	2 2		
	40	n		
Tsubaki model no.	Material grade	Color	Length m	
PR-T403-W-26M	10-100EX	White	26	
PR-T403-G-26M	10-301EX	Green	20	

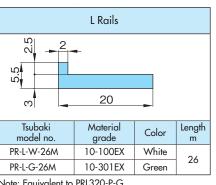
Note: Equivalent to PRT340-P-G (green).

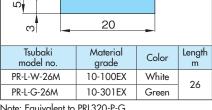
Z Rails



Note: Equivalent to PRZ320-P-G (green)

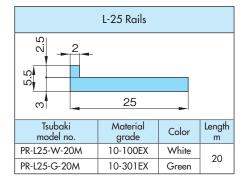
L Rails



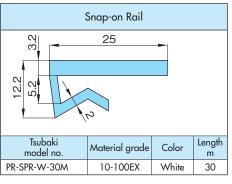


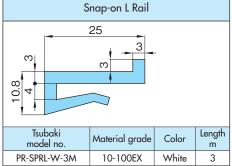
Note: Equivalent to PRL320-P-G.

L-5 Rails 20 2 Tsubaki Material Length Color grade model no. m PR-L5-W-20M 10-100EX White 20 PR-L5-G-20M 10-301EX Green

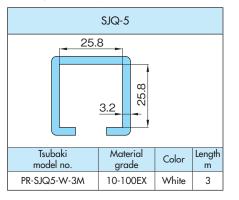


Snap-on Rails

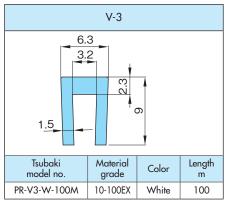


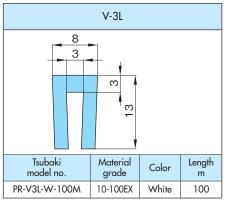


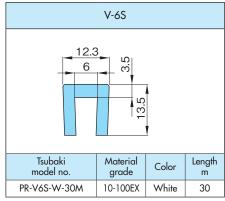
SJQ-5 Rail

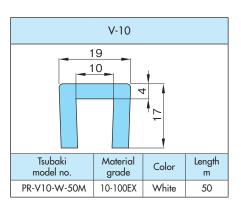


V Rails

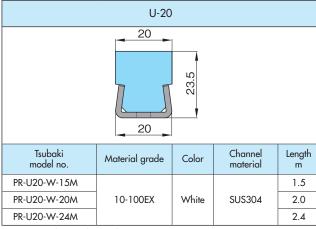




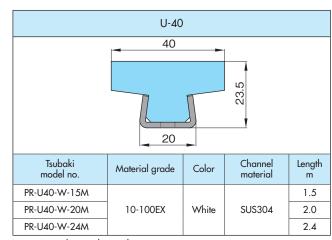




U Rails

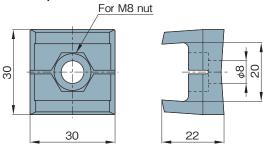


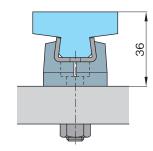
- Note: 1. Made-to-order product.
 - 2. Anti-static (black) and oil-impregnated (green) types are also available.



- Note: 1. Made-to-order product.
 - Anti-static (black) and oil-impregnated (green) types are also available.

Clamp for U Rail



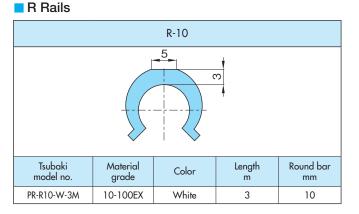


Tsubaki model no.	Material	Color
PR-UK	POM	Black

- Note: 1. To install, tighten the M8 nut (bolt) to a torque of 9.8 to 14.7 N·m (1.0 to 1.5 kgf·m).
 - Plastic guide rails and stainless steel channel may slip and change position due to creepage. They should be secured using knock pins (dowel pins) or the like in the vicinity of drive sprockets.

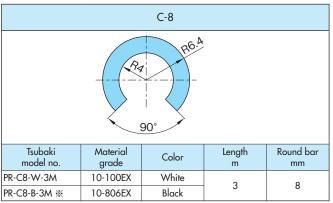
solidur

Dimensions in metric

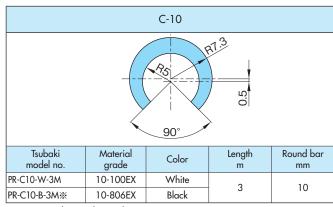


R-12								
5								
Tsubaki model no.	Tsubaki Material Color Length Round bar model no. grade m mm							
PR-R12-W-3M								

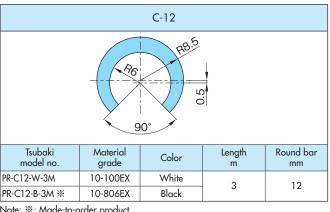
C Rails



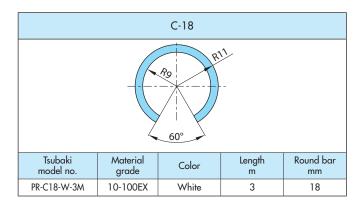
Note: W: Made-to-order product



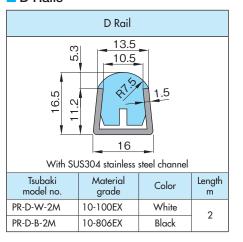
Note: :: Made-to-order product

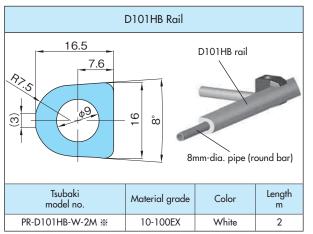


Note: *: Made-to-order product



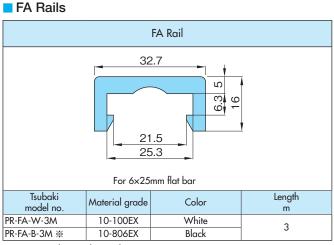
D Rails

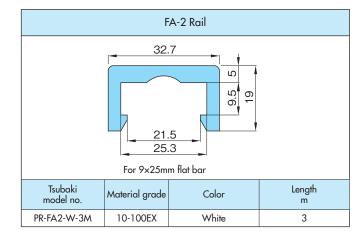




Note: **%**: Made-to-order product

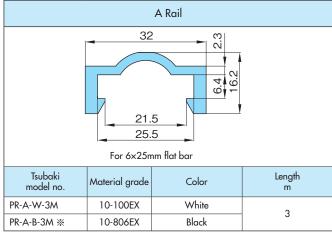
Dimensions in metric





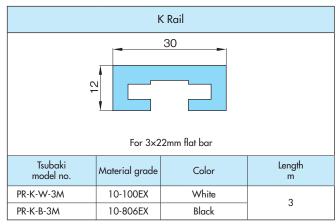
Note: %: Made-to-order product

A Rails

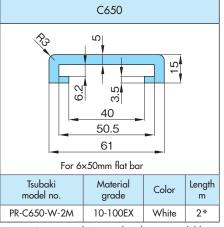


Note: :: Made-to-order product

K Rails

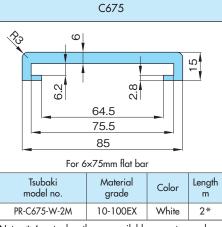


C650 Rail



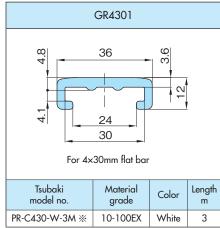
Note: *3-meter and 4-meter lengths are available on custom order.

C675 Rail



Note: *4-meter lengths are available on custom order.

■ GR4301 Rail

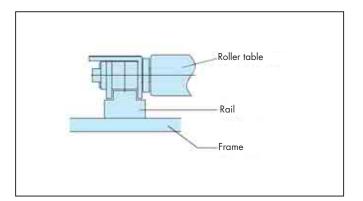


Note: :: Made-to-order product

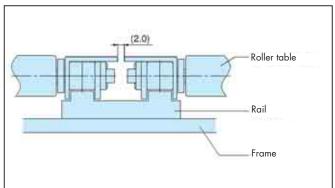
Plastic Guide Rails

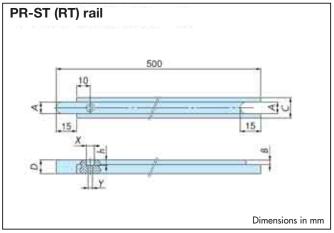
Roller Table Carry-Way Rails (Types ST and RT)

1) For single-strand roller table



2) For multi-strand roller table





T	10	500	1	
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PR-ST-2 rail	
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10	
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·	——————————————————————————————————————
15	
(Z-Z' cross-section)	
X E	60
- I Y	Dimensions in

Tsubaki model no.	used used	Α	В	С	D	screws	X:Depth h	Υ	Tsubaki mode
PR-ST300-P	ST300	4.0	2.7	9.5		M1.6	4222	φ1.8	PR-ST300-F
PR-RT300-P	RT300	4.0	1.6	9.5		pan-head screw	ϕ 3.2×3	ψ1.6	PR-ST400-F
PR-ST400-P	ST400	7.0	3.1	10		M2	440.4	φ2.2	PR-ST500-F
PR-RT400-P	RT400	7.0	1.7	12	10	pan-head screw	$\phi 4.0 \times 4$	φ2.2	
PR-ST500-P	ST500	8.5	3.5	1.5		M3			
PR-RT-500-P	RT500	0.5	2.0	13		pan-head	φ6.0×4	φ3.2	

Tsubaki model no.	Chain size used	Α	В	С	D	Ε	Mounting screws	X:Depth h	Y
PR-ST300-P-2	ST300	4.0	2.7	26		16.5	M4		
PR-ST400-P-2	ST400	7.0	3.1	36.5	10	24.5	pan-head	φ8×5	φ4.2
PR-ST500-P-2	ST500	8.5	3.5	43.5		28.5	screw		

2.6 Note: 1. For shapes, color (green), and materials other than those described above, contact a Tsubaki representative.

19

2. Operating temperature range: -20°C to 60°C

RT600 | 11.7

Model Numbering

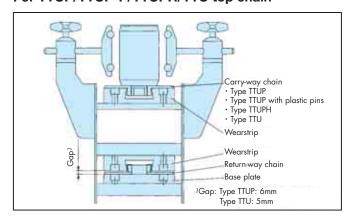
PR-RT600-P



 $[blank]: Single\ strand$: Multiple strands (Can be used between multiple strands.)

Note: Do not leave spaces between letters and symbols.

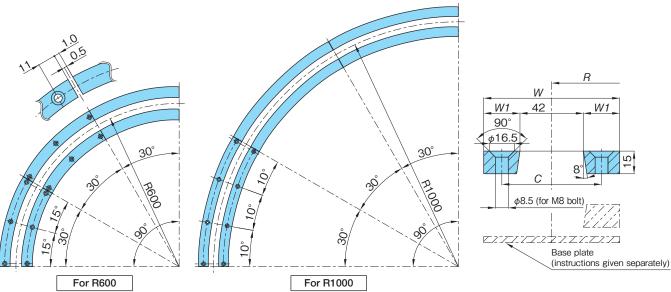
Corner Rail Conveyor Cross Sections For TTUP/TTUP-P/TTUPH/TTU top chain



Note: Corner rails can also be manufactured in designs other than those shown above. Contact a Tsubaki representative for details.

Corner Rails Dimensions in mm

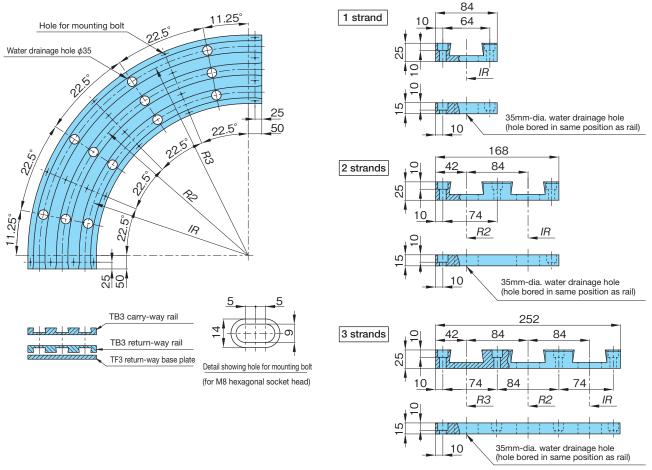
Corner Rails for TTUP Chain



		Center					Di	mensions m		Number
Chain type	Tsubaki model no.	radius R mm	Side	Material grade	Color	Arc angle	Total width W	Rail width W1	Hole position C	of holes
	PR-32R60030-W-IN	600	Inside	10-100	White					
TTUP826	PR-32R60030-W-OUT	000	Outside	10-100	vvniie					3
	PR-32R60030-G-IN	600	Inside	10-301	Green					3
TTUP826P	PR-32R60030-G-OUT	000	Outside	10-301	Green	30°	90	24	66 *	
TTUPH826	PR-32R100030-W-IN	1000	Inside	10-100	White	30	90	24	00 ^	
TTI 100 /	PR-32R100030-W-OUT	1000	Outside	10-100	vvniie					
TTU826	PR-32R100030-G-IN	1000	Inside	10-301	Green					4
	PR-32R100030-G-OUT	1000	Outside	10-301	Green					
	PR-44R60030-W-IN	/00	Inside	10-100	White					
	PR-44R60030-W-OUT	600	Outside	10-100	vvnite					3
TTUP1143	PR-44R60030-G-IN	600	Inside	10-301	C					3
TTUP1143P	PR-44R60030-G-OUT	600	Outside	10-301	Green	30°	122	40	82 *	
110111431	PR-44R100030-W-IN	1000	Inside	10-100	White	30	122	40	02 ^	
TTU1143	PR-44R100030-W-OUT	1000	Outside	10-100	vvnite					4
	PR-44R100030-G-IN	1000	Inside	10-301	Green					4
	PR-44R100030-G-OUT	1000	Outside	10-301	Green					
	PR-74R60030-W-IN	600	Inside	10-100	White					
	PR-74R60030-W-OUT	000	Outside	10-100	vvniie					3
	PR-74R60030-G-IN	600	Inside	10-301	Green					3
TTUP1905	PR-74R60030-G-OUT	000	Outside	10-301	Green	30°	192	75	117*	
TTU1905	PR-74R100030-W-IN	1000	Inside	10-100	White	30	192	/5	117 *	
	PR-74R100030-W-OUT	1000	Outside	10-100	vvnitė					4
	PR-74R100030-G-IN	1000	Inside	10-301	Green					4
	PR-74R100030-G-OUT	1000	Outside	10-301	Green					

Note: Mounting holes are drilled to indicated dimensions.

Corner Rails for TTUP Chain



	No. of				Material	Tsubaki model no.				
Chain type	strands	IR mm	R2 mm	R3 mm	grade	Carry-way/ return-way rail	Return-way base plate	Set		
	1	600	_	_		PR-TB3-16-3	PR-TF3-16-3	PR-TB3-16-3SET		
	2	600	684	_		PR-TB3-26-3	PR-TF3-26-3	PR-TB3-26-3SET		
	3	600	684	768		PR-TB3-36-3	PR-TF3-36-3	PR-TB3-36-3SET		
TTUP826	1	800	_	_		PR-TB3-18-3	PR-TF3-18-3	PR-TB3-18-3SET		
TTUP826P	2	800	884	_	10-301	PR-TB3-28-3	PR-TF3-28-3	PR-TB3-28-3SET		
TTUPH826	3	800	884	968		PR-TB3-38-3	PR-TF3-38-3	PR-TB3-38-3SET		
	1	1000	_	_		PR-TB3-10-3	PR-TF3-10-3	PR-TB3-10-3SET		
	2	1000	1084	_		PR-TB3-20-3	PR-TF3-20-3	PR-TB3-20-3SET		
	3	1000	1084	1168		PR-TB3-30-3	PR-TF3-30-3	PR-TB3-30-3SET		

Note: 1. "Set" indicates a bundle of one carry-way rail, one return-way rail, and one base plate.

2. Custom specifications other than those above, including number of rows, dimensions, color, and top plate width of 114.3mm, are available upon request.

Thickness

mm

0.25

Coil length

mm

20

Material

grade

10-100

Color

White

3. Contact a Tsubaki representative for special specifications such as for super-high-speed operation.

Wear Tape

Solidur® Wear Tape is a special UHMW-PE tape with a pressure-sensitive adhesive backing.

Tsubaki model no.	Width mm	Thickness mm	Coil length mm	Material grade	Color	Tsubaki model no.	Width mm
PR-WT15-20M	15					PR-WT50-20M	50
PR-WT20-20M	20					PR-WT75-20M	75
PR-WT25-20M	25	0.25	20	10-100	White	PR-WT100-20M	100
PR-WT30-20M	30					PR-WT150-20M	150
PR-WT40-20M	40					PR-WT300-20M	300

Note: 1 Depending on the manufactur	na lot isizos othor than thoso shown a	bove, as well as anti-static type (black), can al:	o ha manufactured upon request
TAGIE. 1. DEDETIGING ON THE INCHIDING	id ioi, sizes offier fridit friose showir d	bove, as well as allif-sialic type (black), call all	so de mandiacidi ea abon readesi.
3	3 - ,	71-1	

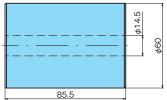
^{2.} Die-cutting is also available.

Return Rollers & Guide Flanges

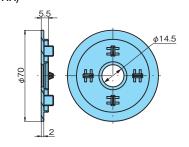
Return Rollers & Guide Flanges

• Return Roller



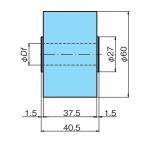






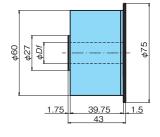
• Split-Hub Return Roller (no flange)





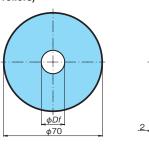
• Split-Hub Return Roller (with flange)





• Guide Flange (for split-hub return rollers)





Note: Use return rollers on the return way of the conveyor to support the top

surface of the chain.

Material: Polyamide

Tsubaki model no.	Color
TP-C12890T-RR	Black

Note: White color has been discontinued.

Material: Polyamide

Tsubaki model no.	Color
TP-C12891T-GF	Black

Note: 1. Will mount only on TP-C12980T-RR return roller (shown above).

2. White color has been discontinued.

Material: High-density polyethylene

Color: Black

Tsubaki model no.	Shaft diameter Df
TP-C122113NT-RR	15.5
TP-C12535NT-RR	20.5

Note: TP-C12535NT-PR is for use with wide chains.

Material: High-density polyethylene

Color: Black

Tsubaki model no.	Shaft diameter Df
TP-C122116NT-RR	15.5
TP-C12536NT-RR	20.5

Note: TP-C12536NT-PR is for use with wide chains.

Material: Polypropylene

Color: Green

Tsubaki model no.	Shaft diameter Df
TP-C12842T-GF	15.5
TP-C12534T-GF	20.5

Note: For use with split-hub return rollers.

High-Rotation Return Rollers & Guide Flanges

These return rollers use an engineering plastic having low resistance to the shaft on the inner circumference and a soft material having a high resistance to the chain on the outer circumference, thus ensuring exceptionally smooth rotation. These rollers are effective in situations in which damage to the top surface of the chain slats must be avoided, or to deaden noise on the return way of the chain.

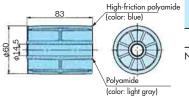
In addition, we have expanded the line-up to include types that minimize the generation of wear dust by reducing contact with the slat top surfaces and through the use of internal bearings in the shaft hole.

TP-IR60, TP-IR18, TP-RR50: For dry conditions

TP-C121963, 121966RNT-RR, TP-C121967, 121970RNFT-RR: For wet and dry conditions

• TP-IR60 Return Roller



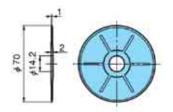


Tsubaki model no.	Operating temperature range
TP-IR60	-20°C to 80°C

- Note: 1. Should not be used under wet conditions.
 - 2. For use at chain speeds of less than 50 meters/minute.
 - 3. Use return rollers on the return way of the conveyor to support the top surface of the chain.

• TP-GF70 Guide Flange



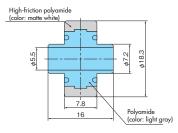


Tsubaki model no.	Material (color)	Operating temperature range
TP-GF70	Antistatic polyacetal (light gray)	-20°C to 80°C

Note: For use with TP-IR60 return roller (shown above).

• TP-IR18 Return Roller



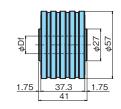


Tsubaki model no.	Operating temperature range
TP-IR18	-20°C to 80°C

- Note: 1. Should not be used under wet conditions.
 - 2. For use with BTC4-500-M.
 - Use return rollers on the return way of the conveyor to support the top surface of the chain.

• Split-Hub Return Roller (no guide flange)





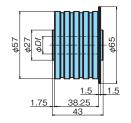
Material: Shaft/sides: High-density polyethylene (green) Outer circumference: Thermoplastic rubber (gray)

Tsubaki model no.	Shaft diameter Df	Operating temperature range
TP-C121963RNT-RR	15.5	-20°C to 60°C
TP-C121966RNT-RR	20.5	-20 C 10 60 C

- Note: 1. For use at chain speeds of less than 50 meters/minute.
 - 2. TP-C121966RNT-RR is for use with wide chains.
 - Use return rollers on the return way of the conveyor to support the top surface of the chain.

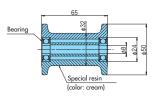
• Split-Hub Return Roller (with guide flange)





• TP-RR50 Return Roller (with internal bearings in shaft hole)





Material: Shaft/sides: High-density polyethylene (green) Outer circumference: Thermoplastic rubber (gray)

Tsubaki model no.	Shaft diameter Df	Operating temperature range
TP-C121967RNFT-RR	15.5	-20°C to 60°C
TP-C121970RNFT-RR	20.5	-20 C to 60 C

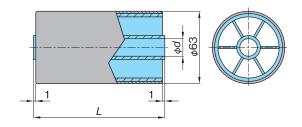
- Note: 1. For use at chain speeds of less than 50 meters/minute.
 - 2. TP-C121970RNFT-RR is for use with wide chains.
 - Use return rollers on the return way of the conveyor to support the top surface of the chain.

Tsubaki return roller no.	Operating temperature range
TP-RR50	0°C to 40°C

- Note: 1. Should not be used under wet conditions.
 - 2. For use at chain speeds of less than 50 meters/minute.
 - 3. Use return rollers on the return way of the conveyor to support the top surface of the chain.

Rubber Return Rollers

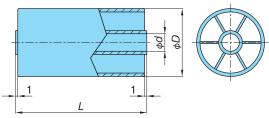




Tsubaki model no.	Dime	nsions	Material		Applicable disc plate
isubaki model no.	d	L	Body	Outer surface rubber	Applicable disc pidle
TP-RR61544-RB	15.5	114			TP-DP615
TP-RR62032-RB	20.5	82	Polyamide	Olefin-based elastomer	TP-DP620
TP-RR62044-RB	20.5	114			TP-DP620

Return Rollers





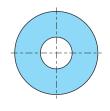
Tsubaki model no.	Dimensions			Material	Applicable disc plate
isobaki model no.	D	d	L	Malerial	Applicable also plale
TP-RR41532	40	15.5	82		TP-DP415
TP-RR41544	40	15.5	114		TP-DP415
TP-RR42032	40	20.5	82		TP-DP420
TP-RR42044	40	20.5	114	Polyamide	TP-DP420
TP-RR61544	60	15.5	114		TP-DP615
TP-RR62032	60	20.5	82		TP-DP620
TP-RR62044	60	20.5	114		TP-DP620

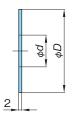
Note: Use d=15.5 return rollers for plastic chain.

Disc Plates







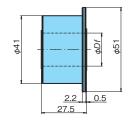


Tsubaki	Dime	nsions	Material
model no.	D	d	Maleriai
TP-DP415	55	16	
TP-DP420	55	21	Polyamide
TP-DP615	80	16	rolyamide
TP-DP620	80	21	

Return Rollers for Stainless Steel Top Chain

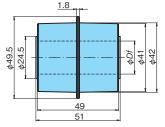
• Return Roller (for stainless steel top chain)





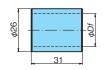
• Return Roller (for stainless steel top chain)





• Spacer (for 82.6mm plate width)





Note: Use return rollers on the return way of the conveyor to support the top surface of the chain.

Material: High-density polyethylene

Color: Black

Tsubaki model no.	Shaft diameter Df
TP-C12822NT-RR	20.5

Note: 1. Operating temperature range: -20°C to 60°C (except in hot water environments)

2. For use with stainless steel top chains.

Material: High-density polyethylene

Color: Black

Tsubaki model no.	Shaft diameter <i>Df</i>
TP-C12862NT-DR	20.5

Note: 1. Operating temperature range: -20°C to 60°C (except in hot water environments)

2. For use with stainless steel top chains.

Material: Polyamide Color: Black

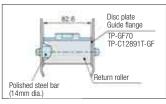
Tsubaki model no.	Shaft diameter Df
TP-C12824NT-DT	20.5

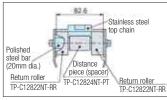
Note: 1. For plate widths other than 82.6mm, cut PVC pipe or similar material to the required width and assemble with the return roller shown above.

2. Operating temperature range: -20°C to 80°C (except in hot water environments)

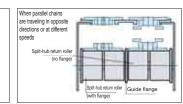
Return Roller Mounting Examples

Top Chain



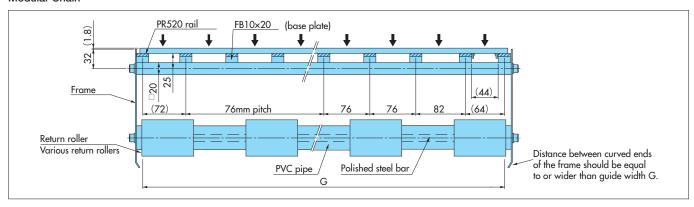






- When the plate width is greater than 83mm, use PVC pipe or similar material instead of the spacer shown above to adjust the distance between return rollers.
- Return rollers for stainless steel top chain will not rotate when combined with plastic chain, and may cause uneven wear of top plate surfaces.

Modular Chain



Sliding Shoes, Spacers, Washer Guide Rails

• Sliding Shoe (SD)

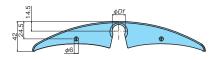
Plastic Modular Chain

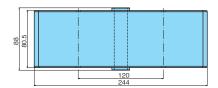
Plastic Top Chain

Plastic Block Chain

Stainless Steel Top Chain







Application: For use with 82.6mm wide top chain

Material: Polyamide Color: Black

Tsubaki model no.	Bore diameter Df
TP-C14833BT-SD	20.5

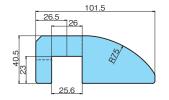
Note: 1. For use with accumulation chains and roller tables.

- 2. Mount on 20mm-dia. round machined bar.
- 3. For use at chain speeds of less than 50 meters/minute.

• Sliding Shoe (SD)







Max. Chain Speed (m/min)

Chain material	Lube			
Chain malerial	None	Yes		
Stainless steel	60	100		
Polyacetal	40	60		

Material: Polyethylene (green)

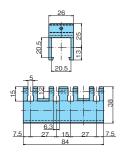
Tsubaki model no.	Operating temperature range
TP-C14343T-SD	-20°C to 60°C

Note: 1. For use with TP-C14320T-SP spacer.

2. For use with 82.6mm wide top chain.

• Spacer (SP)





Material: Polyamide (black)

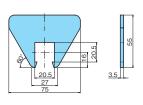
Tsubaki model no.	Operating temperature range	
TP-C14320T-SP	-20°C to 80°C	

Note: 1. For use with TP-C19067VT-PR guide rail.

2. Mount on 20 x 20mm square shaft.

• Washer (WS)





Material: Polyamide (black)

Tsubaki model no.	Operating temperature range
TP-C14322T-WS	-20°C to 80°C

Note: 1. For use with multiple strands of top chain to prevent interference between the chains.

2. For use with TP-C14320T-SP spacer.

• Guide Rail (PR)





Material: UHMW-PE (green)

Tsubaki model no.	Standard length	Operating temperature range
TP-C19067VT-PR	60m	-20°C to 60°C

Note: 1. Guide rail for use with TP-C14320T-SP spacer.
Order length: Sold by the piece in one-meter lengths.

 When a rail has become worn, its service life can be extended by flipping it over.

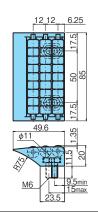
Modular Transfer Roller Plates

Dimensions in mm

Installing rollers at conveyor-to-conveyor connection points prevents jams and ensures smooth transitions. In addition, the rotation of the rollers reduces resistance, making it possible to also reduce toppling of conveyed items.

• 3-row type





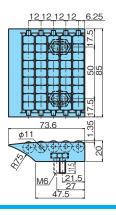
Material: Body & roller: Low-friction polyacetal
Pin & bolt: Stainless steel (nuts not included)

Tsubaki model no.

TP-C16770ST-MTRP

• 5-row type





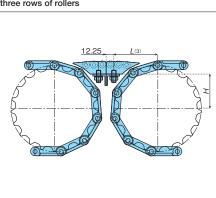
Material: Body & roller: Low-friction polyacetal
Pin & bolt: Stainless steel (nuts not included)

Tsubaki model no.

TP-C16772ST-MTRP

Assemblies for Head-to-Tail Transfers

Head-to-tail transfer with two modules of three rows of rollers



Head-to-tail transfer with two modules of five rows of rollers

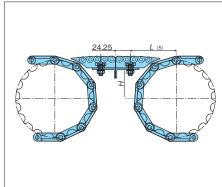
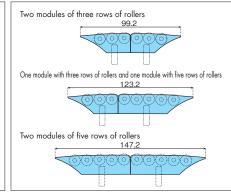


Plate widths when assembled



Dimensions will vary depending on the chain and sprockets used. See the table below.

Installation Dimensions for Plastic Top Chain and Modular Transfer Roller Plates: H, L (3-row), and L (5-row)

Straight running

	Sprocket teeth								
Chain hans	21		23			25			
Chain type	Н	L(3)	L(5)	Н	L(3)	L(5)	Н	L(3)	L(5)
π	51.5	84.0	106.8	57.5	86.4	108.2	63.5	88.8	109.6
TTP, TTPH, TTPT	52.1	83.7	105.8	58.1	86.1	107.1	64.1	88.5	108.5
TTPDH	_	_	_	_	_	_	64.9	88.7	108.4
TTPDH-LBP	_	_	_	_	_	_	79.4	113.3	113.3

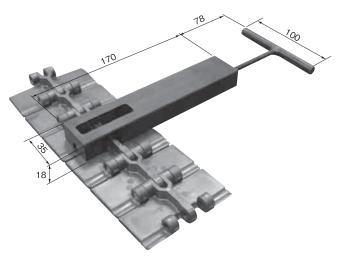
Sideflexing

	Sprocket teeth				
Chain type		12			
Chain type	Н	L(3)	L(5)		
TTUP, TPU, TPU-BO, TTUPH, TTUP-M, TTUPT-M	61.0	86.1	107.7		
TPUH-BO	61.4	86.4	108.0		
TPUS	63.5	87.6	108.0		
TPUS-LBP	78.0	111.0	111.0		

Disconnecting and Connecting Tools

For TTP Top Chains

Tsubaki model no.: TTP-KV-AST

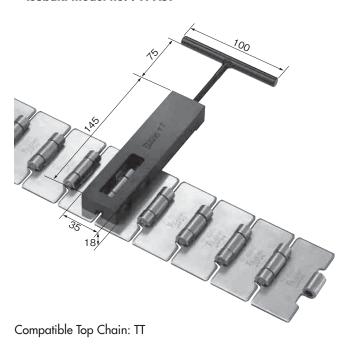


Compatible Top Chain: TTP826, TTP1143

- 1. Set the tool on the chain as shown and turn the handle until the pin is removed.
- 2. This tool can be used both for disconnecting and connecting a chain.
- 3. It can be used with TTP Top Chains having a top plate width of 114.3mm or less.
- 4. Standard product.

For TT Top Chains

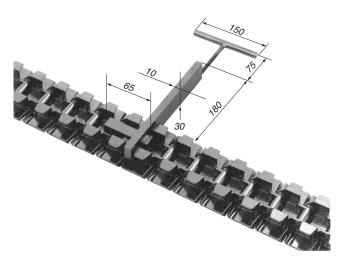
Tsubaki model no.: TT-AST



- 1. Set the tool on the chain as shown and turn the handle until the pin is removed.
- 2. This tool can be used only for disconnecting a chain, not for connecting.
- It can be used with Top Chains having a top plate width of 190.5mm or less.
- 4. Standard product.

For TPS-KV and TPU-KV Top Chains

Tsubaki model no.: TPS-TPU-KV-AST



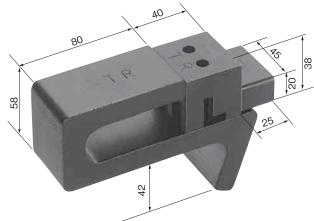
Compatible Top Chain: TPS826, TTUP826, TPU826 KV series

- Set the tool on the chain as shown and turn the handle until the pin is removed.
- This tool can be used both for disconnecting and connecting a chain.
- 3. For TPU826 chain, use only on KV series.
- 4. Standard product.

For TRU and TTKU Top Chains

Tsubaki model no.: TRU-TTKU-AST

- This tool can be used commonly for TRU and TTKU Top Chains.
- 2. Grind off the rivets at the end of the two pins of the outer link to be cut, using a hand grinder. Take care not to damage the inner links on both sides. In the case of a TRU chain, grind off the rivet on the side having no float-preventive tabs.
- 3. Set the link on the tool as shown with the rivet of the pin ground off.

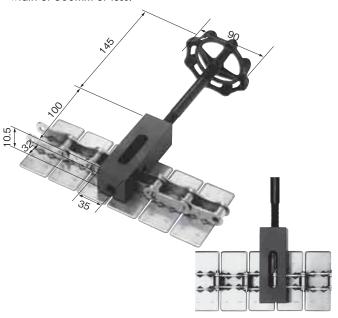


- 4. Tap the double punch with a hammer, and pull out the two ground-off pins of the chain until they are removed from the outer plate.
- 5. This tool is specifically to be used for disconnecting.
- 6. Standard product.

For TS Top Chains

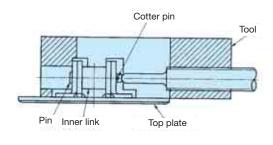
Tsubaki model no.: TS-AST

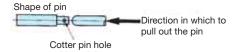
This tool can be used with a TS Top Chain having a top plate width of 300mm or less.



- 1. A chain can be disconnected by removing pins on the chain main body one by one.
- The tool can also be used for connecting chains since the pins on the chain main body can be press-fitted one by one.
- 3. Standard product.

Procedure for Disconnecting Chain

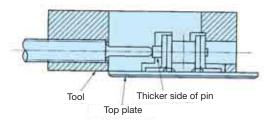




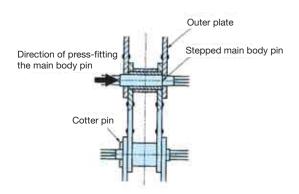
- 1. Close the legs of the cotter pin and pull it out from the main body pin.
- 2. Set the tool as shown in the photos or diagrams. Set it so that the tool is in contact with the surface of the top plate.
- 3. Turn the handle of the tool and push out the pin of the chain from one direction (cotter pin side).

Procedure for Connecting Chain

- 1. Pass the chain pin through the outer plate (larger diameter hole side), inner link, and outer plate (smaller diameter hole side), in this order.
 - Turn the pin so that the cotter pin hole is level with the other pin, and stop turning it at the position where it feels a little tight.
- Set the chain on the tool as shown in the diagram below. (Press-fit the pin from the direction opposite to the removal procedure.)



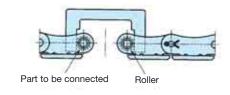
3. Turn the handle of the tool and press-fit the pin of the chain. The position to stop press-fitting of the main body pin is the position where the step of the main body pin comes in contact with the outer plate. You can know the position because the turning force of the handle will feel heavy. You can also know it by looking at the position of the other main body pins that have not been removed.



4. Pass the cotter pin through the hole of the main body pin of the chain, then open the legs of the cotter pin about 60 degrees, to prevent the main body pin from being removed.

How to use the U-Shaped Tool packaged with the TS-AST tool

The tool holds both ends of the chains to be connected as shown below in order to facilitate the work mentioned above in Step 1.



Index of Top Chain Components

Index of Top Chain Components by Part Number

~ 1 1. 11	_
Tsubaki model no.	Page
TP-2SB43	218
TP-2SB48	218
TP-2SB60	218
TP-3SB43	218
TP-A0	235
TP-C12053NT-SPR	180
TP-C12054NT-SPR	180
TP-C12055NT-SPR	180
TP-C12056NT-SPR	180
TP-C12057NT-SPR	84
TP-C12058NT-SPR	84
TP-C12059NT-SPR	84
TP-C12060NT-SPR	84
TP-C12061NT-SPR	184
TP-C12062NT-SPR	184
TP-C12063NT-SPR	184
TP-C12064NT-SPR	184
TP-C12065NT-SPR	180
TP-C12066NT-SPR	180
TP-C12067NT-SPR	180
TP-C12068NT-SPR	180
TP-C12069NT-SPR	84
TP-C12070NT-SPR	84
TP-C12071NT-SPR	84
TP-C12072NT-SPR	84
TP-C12073NT-SPR	184
TP-C12074NT-SPR	184
TP-C12075NT-SPR	184
TP-C12076NT-SPR	184
TP-C12077BT-IW	84
TP-C12078BT-IW	84
TP-C12079BT-IW	84
TP-C12080BT-IW	84
TP-C12081BT-IW	84
TP-C12082BT-IW	84
TP-C12083BT-IW	84
TP-C12084BT-IW	84
TP-C12099NT-SPR	180
TP-C12100NT-SPR	180
TP-C12101NT-SPR	180
TP-C12102NT-SPR	180
TP-C12104NT-SPR	84
TP-C12105NT-SPR	84
TP-C12106NT-SPR	84
TP-C12107NT-SPR	84
TP-C12109NT-SPR	184
TP-C12110NT-SPR	184
TP-C12111NT-SPR	184
TP-C12112NT-SPR	184

Onam C	OI I
Tsubaki model no.	Page
TP-C12115T-SPR	120
TP-C12117T-SPR	120
TP-C12120T-IW	120
TP-C12122T-IW	120
TP-C121646T-IW	89
TP-C121928BT-IW	84
TP-C121929BT-IW	84
TP-C121930BT-IW	84
TP-C121931BT-IW	84
TP-C121963RNT-RR	204
TP-C121966RNT-RR	204
TP-C121967RNFT-RR	204
TP-C121970RNFT-RR	204
TP-C12200BT-IW	84
TP-C12201BT-IW	84
TP-C12203BT-IW	84
TP-C12204BT-IW	84
TP-C12205BT-IW	84
TP-C12207BT-IW	84
TP-C12212BT-IW	84
TP-C12213BT-IW	84
TP-C12215BT-IW	84
TP-C122113NT-RR	203
TP-C122116NT-RR	203
TP-C12295T-SPR	89
TP-C12326T-SPR	142
TP-C12327T-SPR	142
TP-C12328T-SPR	142
TP-C12400T-SPR	98
TP-C12401T-SPR	98
TP-C12402T-SPR	98
TP-C12404T-IW	98
TP-C12534T-GF	203
TP-C12535NT-RR	203
TP-C12536NT-RR	203
TP-C12711T-SPR	98
TP-C12721T-SPR	133
TP-C12723T-CD	136
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TP-C12777T-CD	124
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TP-C13761XPT-GRC	230
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TP-C14746T-CJ	216
TP-C14748NT-STB	216
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TP-C15064TSS-SB	217
TP-C15068T-SB	217
TP-C15068TSS-SB	217
TP-C15072T-SB	217
TP-C15072TSS-SB	217
TP-C15084T-SB	217
TP-C15084TSS-SB	217
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TP-C16772ST-MTRP	208
TP-C16801KT-ARG	227
TP-C171054T-UF	220
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TP-C171060T-UF	220
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TP-C17237T-UF	221
TP-C17456T-UF	221
TP-C17532T-UF	220
TP-C17570CT-UF	220
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TP-C176453T-UF	221
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TP-C19067VT-PR	207
TP-C19S00130-3MT-GR	226
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TP-C50207NT-UCF	242
TP-C50208FRT-UCF	242
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TP-DP615 205 TP-DP620 205 TP-DP620 204 TP-GF70 204 TP-GHA 233 TP-GHB 232 TP-IR18 204 TP-IR60 204 TP-IW50UNS10-30 138 TP-IW50UNS10-40 138 TP-LC 234 TP-RR41532 205 TP-RR41544 205 TP-RR42032 205 TP-RR42044 205 TP-RR61544 205 TP-RR61544-RB 205 TP-RR62032 205 TP-RR62032 205 TP-RR62032-RB 205 TP-RR62044 205 TP-RR62044 205 TP-RR62044 205 TP-RR62044 205 TP-RR62044 205 TP-RR62044-RB 205	TP-DP415	205
TP-DP620 205 TP-GF70 204 TP-GHA 233 TP-GHB 232 TP-IR18 204 TP-IR60 204 TP-IW50UNS10-30 138 TP-IW50UNS10-40 138 TP-LC 234 TP-RR41532 205 TP-RR41544 205 TP-RR42032 205 TP-RR42044 205 TP-RR61544 205 TP-RR61544-RB 205 TP-RR62032 205 TP-RR62032 205 TP-RR62032-RB 205 TP-RR62044 205 TP-RR62044 205 TP-RR62044 205 TP-RR62044 205 TP-RR62044 205 TP-RR62044-RB 205	TP-DP420	205
TP-GF70 204 TP-GHA 233 TP-GHB 232 TP-IR18 204 TP-IR60 204 TP-IW50UNS10-30 138 TP-IW50UNS10-40 138 TP-LC 234 TP-RR41532 205 TP-RR41544 205 TP-RR42032 205 TP-RR42044 205 TP-RR61544 205 TP-RR61544-RB 205 TP-RR62032 205 TP-RR62032-RB 205 TP-RR62044 205 TP-RR62044 205 TP-RR62044 205 TP-RR62044 205 TP-RR62044 205 TP-RR62044-RB 205	TP-DP615	205
TP-GHA 233 TP-GHB 232 TP-IR18 204 TP-IR60 204 TP-IR50 138 TP-IW50UNS10-30 138 TP-IW50UNS10-40 138 TP-LC 234 TP-RR41532 205 TP-RR41544 205 TP-RR42032 205 TP-RR42044 205 TP-RR61544 205 TP-RR61544-RB 205 TP-RR62032 205 TP-RR62032-RB 205 TP-RR62044 205 TP-RR62044 205 TP-RR62044 205 TP-RR62044 RB 205	TP-DP620	205
TP-GHB 232 TP-IR18 204 TP-IR60 204 TP-IR60 204 TP-IW50UNS10-30 138 TP-IW50UNS10-40 138 TP-LC 234 TP-RR41532 205 TP-RR41544 205 TP-RR42032 205 TP-RR42044 205 TP-RR61544 205 TP-RR61544-RB 205 TP-RR62032 205 TP-RR62032-RB 205 TP-RR62044 205 TP-RR62044 205 TP-RR62044 205 TP-RR62044 205 TP-RR62044-RB 205	TP-GF70	204
TP-IR18 204 TP-IR60 204 TP-IR60 204 TP-IW50UNS10-30 138 TP-IW50UNS10-40 138 TP-LC 234 TP-RR41532 205 TP-RR41544 205 TP-RR42032 205 TP-RR42044 205 TP-RR61544 205 TP-RR61544-RB 205 TP-RR62032 205 TP-RR62032-RB 205 TP-RR62044 205 TP-RR62044 205 TP-RR62044-RB 205	TP-GHA	233
TP-IR60 204 TP-IW50UNS10-30 138 TP-IW50UNS10-40 138 TP-IC 234 TP-RR41532 205 TP-RR41544 205 TP-RR42032 205 TP-RR42044 205 TP-RR61544 205 TP-RR61544-RB 205 TP-RR62032 205 TP-RR62032-RB 205 TP-RR62044 205 TP-RR62044 205 TP-RR62044-RB 205	TP-GHB	232
TP-IW50UNS10-30 138 TP-IW50UNS10-40 138 TP-IC 234 TP-RR41532 205 TP-RR41544 205 TP-RR42032 205 TP-RR42044 205 TP-RR61544 205 TP-RR61544-RB 205 TP-RR62032 205 TP-RR62032-RB 205 TP-RR62044 205 TP-RR62044-RB 205	TP-IR18	204
TP-IW50UNS10-40 138 TP-LC 234 TP-RR41532 205 TP-RR41544 205 TP-RR42032 205 TP-RR42044 205 TP-RR61544 205 TP-RR61544-RB 205 TP-RR62032 205 TP-RR62032-RB 205 TP-RR62044 205 TP-RR62044-RB 205	TP-IR60	204
TP-LC 234 TP-RR41532 205 TP-RR41544 205 TP-RR42032 205 TP-RR42044 205 TP-RR61544 205 TP-RR61544-RB 205 TP-RR62032 205 TP-RR62032-RB 205 TP-RR62044 205 TP-RR62044-RB 205	TP-IW50UNS10-30	138
TP-RR41532 205 TP-RR41544 205 TP-RR42032 205 TP-RR42044 205 TP-RR60 204 TP-RR61544 205 TP-RR61544-RB 205 TP-RR62032 205 TP-RR62032-RB 205 TP-RR62044 205 TP-RR62044-RB 205	TP-IW50UNS10-40	138
TP-RR41544 205 TP-RR42032 205 TP-RR42044 205 TP-RR50 204 TP-RR61544 205 TP-RR61544-RB 205 TP-RR62032 205 TP-RR62032-RB 205 TP-RR62044 205 TP-RR62044-RB 205	TP-LC	234
TP-RR42032 205 TP-RR42044 205 TP-RR50 204 TP-RR61544 205 TP-RR61544-RB 205 TP-RR62032 205 TP-RR62032-RB 205 TP-RR62044 205 TP-RR62044-RB 205	TP-RR41532	205
TP-RR42044 205 TP-RR50 204 TP-RR61544 205 TP-RR61544-RB 205 TP-RR62032 205 TP-RR62032-RB 205 TP-RR62044 205 TP-RR62044-RB 205	TP-RR41544	205
TP-RR50 204 TP-RR61544 205 TP-RR61544-RB 205 TP-RR62032 205 TP-RR62032-RB 205 TP-RR62044 205 TP-RR62044-RB 205	TP-RR42032	205
TP-RR61544 205 TP-RR61544-RB 205 TP-RR62032 205 TP-RR62032-RB 205 TP-RR62044 205 TP-RR62044-RB 205	TP-RR42044	205
TP-RR61544-RB 205 TP-RR62032 205 TP-RR62032-RB 205 TP-RR62044 205 TP-RR62044-RB 205	TP-RR50	204
TP-RR62032 205 TP-RR62032-RB 205 TP-RR62044 205 TP-RR62044-RB 205	TP-RR61544	205
TP-RR62032-RB 205 TP-RR62044 205 TP-RR62044-RB 205	TP-RR61544-RB	205
TP-RR62044 205 TP-RR62044-RB 205	TP-RR62032	205
TP-RR62044-RB 205	TP-RR62032-RB	205
	TP-RR62044	205
TP-TA16SUS 222	TP-RR62044-RB	205
	TP-TA16SUS	222
TP-TB12SUS 222	TP-TB12SUS	222
TP-TC 234	TP-TC	234

Guide Pins, Clamp Pins, Bracket Pins

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TP-C12-200T-BP	238
TP-C14-100T-BP	238
TP-C14-200T-BP	238
TP-C16-100T-BP	238
TP-C16-200T-BP	238

List of Abbreviation Symbols

Frame support parts	Abbreviation symbol
Bearing head	BH
Side top bracket	STB
Connecting joint	CJ
Support base	SB
Reduction bush	RB
Threaded tube end	SRB
Universal foot	UF

Product guide parts	Abbreviation symbol
Guide rail	GR
Accumulation roller side guide	ARG
Roller module side guide	ARG
Guide rail clamp	GRC
Cross block	CC

Product guide parts	Abbreviation symbol
T-shaped clamp	TC
Photosensor clamp	FSC
Adjustable bracket	GRB
Spacer	SP
Adjustable head	SH
Knob	HD
Tray supporter	TS
Fixing washer	MP
Guide pin	GP
Clamp pin	СР
Bracket pin	BP

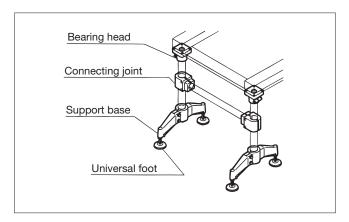
Bearing units	Abbreviation symbol
Diamond flange unit	UCFL
Square flange unit	UCF

Chain guide parts	Abbreviation symbol	
Sliding shoe	SD	
Spacer	SP	
Washer	WS	
Plastic rail	PR	
Return roller	RR	
Guide flange	GF	
Double roller	DR	
Spacer	DT	
Module transfer roller plate	MTRP	

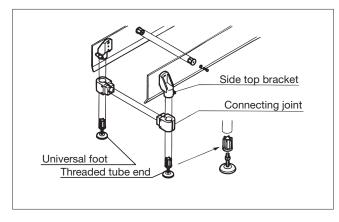
Sprockets & idler wheels	Abbreviation symbol	
Sprocket	SPR	
Idler wheel	IW	
Corner disk	CD	
Hub	HB	

Frame Support Parts

Installation Examples

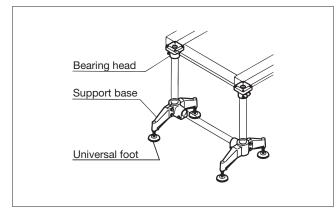


- (1) The bearing head supports a conveyor frame from underneath.
- (2) The connecting joint stabilizes a conveyor by connecting two legs.

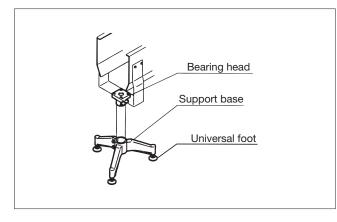


- (1) The side top bracket supports a frame from the side. It is suitable for installing a tray under a conveyor or for use with a simple conveyor.
- (2) A slim layout around the leg can be achieved by press-fitting the threaded tube end into the pipe.

The side top bracket is suitable for a conveyor supported by a number of legs—such as a multiple-strand conveyor—and for supporting a lightweight conveyor.

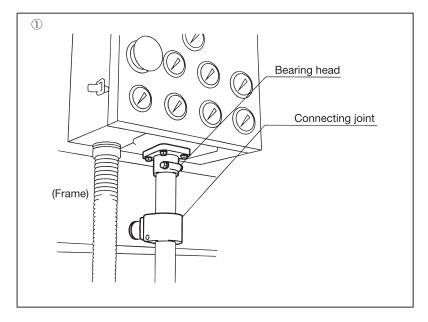


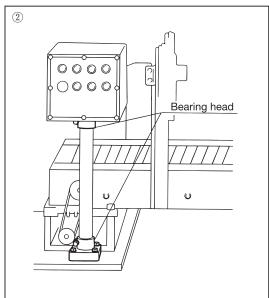
- (1) The support base supports a conveyor at the foot. There are three types of support bases—a two-legged type, a threelegged type, and a two-legged + joint type—each capable of matching various usage conditions.
- (2) The universal foot is fitted to the support base and threaded tube end. The universal foot is suitable for use when installing a conveyor in a wet environment or on an inclined floor.

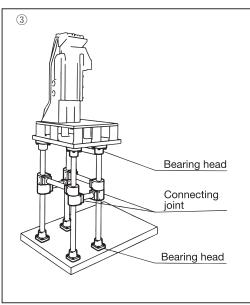


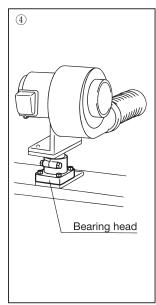
(1) The three-legged support base allows stable support while using a small number of parts.

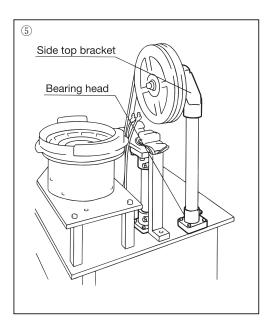
Frame Support Parts

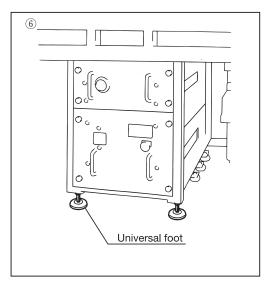












12...Installation on control panels.

(The wiring can be installed through the inside of the bearing head.)

③④···Use as attachments.

These conveyor support parts are used as attachments, and serve as a substitute for metal attachments or installation by welding. (Easy installation and removal)

5.....Use on dedicated machines.

The support parts can be used as attachments for installing parts on various automatic dedicated machines.

⑥·····Use on leg parts of food machines.

The use of the universal foot allows a structure suitable for installation in a wet environment or on an inclined floor for improved drainage. The rust-preventive feature of the foot enhances hygiene.

Combination of Compatible Parts According to Pipe Size ■

		Pipe used	Nominal diameter	2	1 ½	1 1/4
Comp part	oatible		Outside diameter	φ 60.5	φ 48.6	φ 42.7
Bea he	ring ad		Tsubaki model no.	TP-C1 <i>47</i> 39T-BH TP-CPSH60	TP-C14741T-BH TP-C14050T-BH TP-CPSH48	Insert reduction bush TP-C15206T-RB into parts having a nominal diameter of 2.
Side bra	e top cket		Tsubaki model no.	_	TP-C14748NT-STB	_
Conn	ecting int		Tsubaki model no.	TP-C14746T-CJ Reinforcing pipe φ42.7	TP-C14733T-CJ Reinforcing pipe φ42.7	_
	Two-legged		Tsubaki model no.	TP-C15064T-SB TP-C15064TSS-SB TP-2SB60	TP-C15060T-SB TP-C15060TSS-SB TP-2SB48	TP-2SB43 or insert reduction bush TP-C15206T-RB into TP-C15064T-SB or TP-C15064TSS-SB
Support base	Three-legged		Tsubaki model no.	TP-C15088T-SB TP-C15088TSS-SB	TP-C15084T-SB TP-C15084TSS-SB	TP-3SB43
	Two legged + joint		Tsubaki model no.	TP-C15072T-SB TP-C15072TSS-SB Reinforcing pipe ϕ 42.7	TP-C15068T-SB TP-C15068TSS-SB Reinforcing pipe φ 42.7	Insert reduction bush TP-C15206T-RB into TP-C15064T-SB or TP-C15064TSS-SB
Three tube	aded	6	Tsubaki model no.	TP-C14791T-SRB Pipe thickness: 1.65	TP-C14767T-SRB Pipe thickness: 1.65	_
	ersal oot		Tsubaki model no.	TP-C171060T-UF, TP-C TP-TA16SUS, TP-TB12S Types that can be fixed	to the floor : 176450T-UF, TP-C17645	UF,

Frame Support Parts

Bearing Head (BH)



Use this part for securing a pipe onto a frame. Wiring can be installed inside the bearing head.

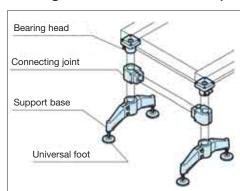
Material: Body = Reinforced polyamide

Bolt
Nut
Washer

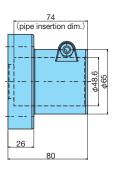
Color: Black = Reinforced polyamide

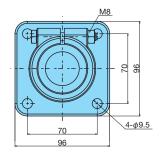
Stainless steel (SUS304)

Bearing Head Installation Example



Mounting hole fixed type

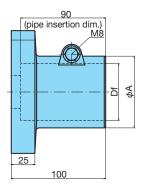


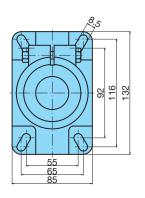


Tsubaki model no.	Pipe outside dia. mm (nominal dia.)
TP-C14050T-BH	48.6 (1½)

Note: Standard product

Mounting hole variable type

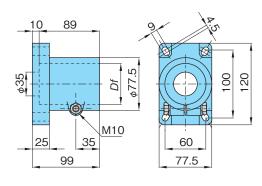




Tsubaki model no.	Pipe outside dia. <i>Df</i> mm (nominal dia.)	Outside dia. A	
TP-C14741T-BH	48.6 (1½)	65	
TP-C14739T-BH	60.5 (2)	76	

Note: Standard product. The dimensions were changed as shown above in June 2011.





	Tsubaki model no.	Df	Material	
15	isubaki model no.		Body	Bolt & nut
	TP-CPSH48	48.6	Reinforced polyamide	Stainless steel
	TP-CPSH60	60.5		

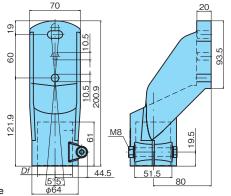
Note: Standard product

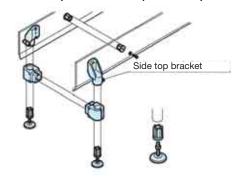
Dimensions in mm

Side Top Bracket (STB)



The side top bracket supports a conveyor frame from the side. Use this part when installing a tray or other item under the conveyor or on simple conveyors.





Material: Body Bolt

ody = Reinforced polyamide

Nut Washer

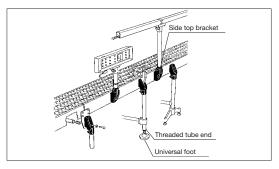
= Stainless steel (SUS304)

Color: Black

Tsubaki model no.	Pipe outside dia. Df mm (nominal dia.)
TP-C14748NT-STB	48.6 (1½)

Note: 1. Bracket tilt angle: 5°
2. Standard product

Side Top Bracket Installation Example



Notes for Handling Side Top Brackets

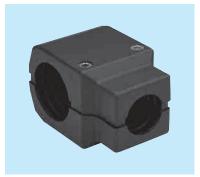


When the side top bracket divider is removed, the hole can be used for mounting a round bar for reinforcement.

Work procedure:

Apply a punch to the part indicated in the diagram on the left, and tap it gently with a hammer to remove the divider.

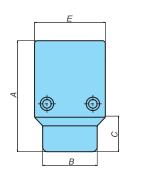
Connecting Joint (CJ)

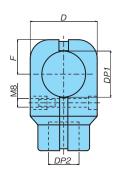


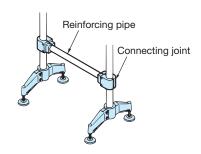
Material: Body = Reinforced polyamide Bolt = Stainless steel (SUS304)

Bush = Brass

The connecting joint connects two conveyor legs to stabilize a conveyor.







Note: Do not step on the reinforcing pipe.

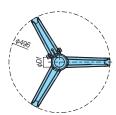
The connecting joint could be displaced.

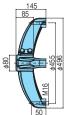
Tsubaki model no.	Pipe outside dia. mm (nominal dia.)	DP1	DP2	Α	В	С	D	E	F
TP-C14733T-CJ	48.6 & 42.7 (1½ & 1¼)	48.6	42.7	122	62	40	78	78	39
TP-C14746T-CJ	60.5 & 42.7 (2 & 11/4)	60.5	42.7	130	65	41	82	82	42.5

Frame Support Parts

Support Base (SB)

The support base supports the base of a conveyor.





Brass bush & stainless steel bush

Tsubaki model no.	Pipe outside dia. <i>Df</i> mm (nominal dia.)	Bush material
TP-C15084T-SB	48.6 (1½)	Brass
TP-C15088T-SB	60.5 (2)	Drass
TP-C15084TSS-SB	48.6 (1½)	Stainless steel
TP-C15088TSS-SB	60.5 (2)	Sidifiless sieei

Note: Standard product

Material: Body Bolt

= Reinforced polyamide = Stainless steel

Bush

Nut

= Brass or stainless steel



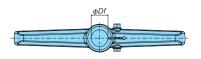
Material: Body

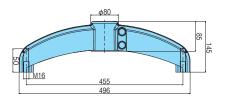
= Reinforced polyamide

Bolt Nut

= Stainless steel

Bush = Brass or stainless steel





Brass bush & stainless steel bush

Tsubaki model no.	Pipe outside dia. Df mm (nominal dia.)	Bush material
TP-C15060T-SB	48.6 (1½)	Brass
TP-C15064T-SB	60.5 (2)	Drass
TP-C15060TSS-SB	48.6 (1½)	Stainless steel
TP-C15064TSS-SB	60.5 (2)	Sidiffiess sieei

Note: Standard product



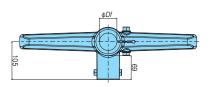
Material: Body

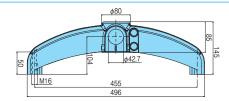
= Reinforced polyamide

Nut

= Stainless steel

Bush = Brass or stainless steel



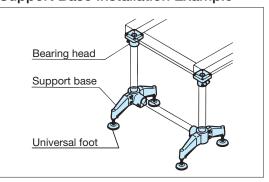


Brass bush & stainless steel bush

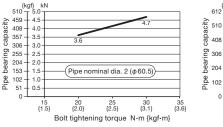
Tsubaki model no.	Pipe outside dia. Df mm (nominal dia.)	Bush material
TP-C15068T-SB	48.6 (1½)	Brass
TP-C15072T-SB	60.5 (2)	Drass
TP-C15068TSS-SB	48.6 (1½)	Stainless steel
TP-C15072TSS-SB	60.5 (2)	Sidiffiess sieer

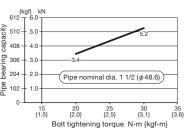
Note: Standard product

Support Base Installation Example

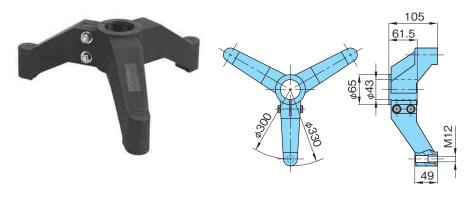


Bearing Capacity of Support Base Pipe





Note: The pipe bearing capacity shown above is the measured value when a polished pipe is used. This is not a guaranteed value.



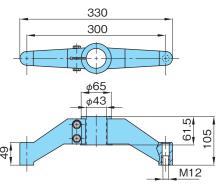
Material: Body = Reinforced polyamide Bolt & nut = Stainless steel

= Nickel-plated brass Bush

Tsubaki model no.	Load capacity kN {kgf}
TP-3SB43	2.45 {250}

Note: 1. Standard product
2. The tightening torque of bolts and nuts is 9.8
N·m {1.0 kgf·m}.





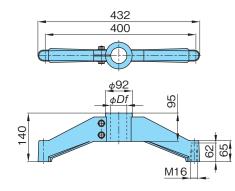
Material: Body = Reinforced polyamide Bolt & nut = Stainless steel Bush = Nickel-plated brass

Tsubaki model no.	Load capacity kN {kgf}
TP-2SB43	2.45 {250}

Note: 1. Standard product

2. The tightening torque of bolts and nuts is 9.8 N·m {1.0 kgf·m}.





Material: Body = Reinforced polyamide Bolt & nut = Stainless steel Bush = Nickel-plated brass

Tsubaki model no.	Df	Load capacity kN {kgf}
TP-2SB48	48.6	3.43 {350}
TP-2SB60	60.5	3.43 (330)

Note: 1. Standard product

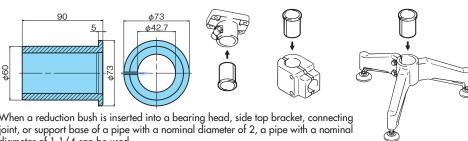
2. The tightening torque of bolts and nuts is 14.7 N·m {1.5 kgf·m}.

Frame Support Parts

Reduction Bush (RB)



The reduction bush can reduce the size of a pipe.



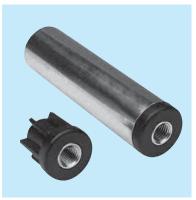
When a reduction bush is inserted into a bearing head, side top bracket, connecting joint, or support base of a pipe with a nominal diameter of 2, a pipe with a nominal diameter of 1 1/4 can be used.

Tsubaki model no.	Pipe outside dia. mm (nominal dia.)
TP-C15206T-RB	42.7 (11/4)

Note: Standard product

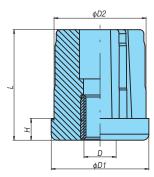
Material: Body = Polyamide

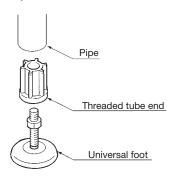
Threaded Tube End (SRB)



Material: Body = Polyamide Bush = Nickel-plated brass

When this part is inserted into a pipe and used in combination with a universal foot, it can be used as a leg for a conveyor frame.





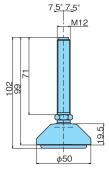
Tsubaki model no.	Pipe outside dia. mm (nominal dia.)	D	D1	D2	Н	L
TP-C14767T-SRB	48.6 (11/2)	M16	48	45.8	10	55
TP-C14791T-SRB	60.5 (2)	M16	60	58	12	50

Note: 1. Standard product

Universal Foot (UF)

The universal foot can be used as a foot for a conveyor or other equipment. Use it on an inclined floor or in a place where the level needs adjustment. The hole-drillable type can be fixed to the floor.





= Stainless steel (SUS304) Material: Bolt Main body plate = Reinforced polyamide Antiskid rubber pad = Oil-resistant rubber: Shore hardness 70

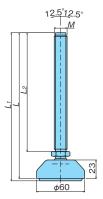
Tsubaki model no.	Allowable load kN {kgf}
TP-C17107T-UF	12.0 {1220}

Note: 1. The allowable load is the maximum allowable load in a static state.

2. Standard product

^{2.} Use a pipe with a thickness of 1.65mm.





= Stainless steel (SUS304) Material: Bolt Main body plate = Reinforced polyamide

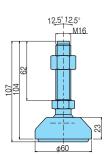
Antiskid rubber pad = Oil-resistant rubber: Shore hardness 70

Tsubaki model no.	L	L ₁	L ₂	Allowable load kN {kgf}	М
TP-C171054T-UF	94	97	60	15.0 {1530}	M16
TP-C171056T-UF	179	182	145	15.0 {1530}	M16
TP-C171060T-UF	179	182	145	15.0 {1530}	M20

Note: 1. The allowable load is the maximum allowable load in a static state.

2. Standard product





Material: Bolt = Polyamide with steel insert Nut = Stainless steel (SUS304)

Main body plate = Reinforced polyamide

Antiskid rubber pad = Oil-resistant rubber: Shore hardness 70

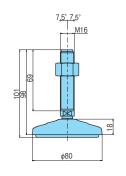
Tsubaki model no.	Allowable load kN {kgf}
TP-C17715T-UF	0.78 {80}

Note: 1. The allowable load is the maximum allowable load in a static state.

2. Standard product

Standard type





Material: Bolt Nut	= Stainless steel (SUS304)
--------------------	----------------------------

= Reinforced polyamide Main body plate

Antiskid rubber pad = Oil-resistant rubber: Shore hardness 70

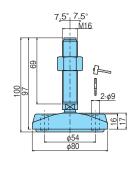
Tsubaki model no.	Allowable load kN {kgf}
TP-C17532T-UF	15.0 {1530}

Note: 1. The allowable load is the maximum allowable load in a static state.

2. Standard product

Fixing hole drillable type





Material: Bolt = Stainless steel (SUS304)

> Main body plate = Reinforced polyamide

Antiskid rubber pad = Oil-resistant rubber: Shore hardness 70

The fixing hole is not completely drilled through so as to prevent the accumulation of foreign matter. If a fixing hole is needed, punch a hole with a punch and hammer as shown.

Tsubaki model no.	Allowable load kN {kgf}
TP-C17570CT-UF	15.0 {1530}

Note: 1. This is of the same specifications as TP-C17532T-UF, except that it can be fixed

to the floor.

2. The allowable load is the maximum allowable load in a static state.

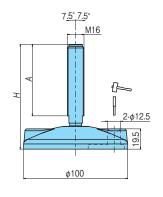
3. Standard product

Dimensions in mm

Frame Support Parts

Fixing hole drillable type





Material: Bolt = Stainless steel (SUS304)

Main body plate = Reinforced polyamide

Antiskid rubber pad = Oil-resistant rubber: Shore hardness 70

The fixing hole is not completely drilled through so as to prevent the accumulation of foreign matter. If a fixing hole is needed, punch a hole with a punch and hammer as shown.

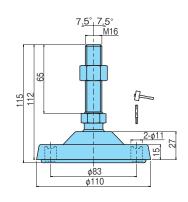
Tsubaki model no.	Allowable load kN {kgf}	Н	Α
TP-C176450T-UF	18.0 {1830}	100	70
TP-C176453T-UF	18.0 {1830}	210	180

Note: 1. The allowable load is the maximum allowable load in a static state.

2. Standard product

Fixing hole drillable type





Material: Bolt Nut } = Stainless steel (SUS304)

Main body plate = Reinforced polyamide

Antiskid rubber pad = Oil-resistant rubber: Shore hardness 70

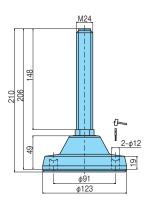
The fixing hole is not completely drilled through so as to prevent the accumulation of foreign matter. If a fixing hole is needed, punch a hole with a punch and hammer as shown.

Tsubaki model no.	Allowable load kN {kgf}	
TP-C17456T-UF	1.96 {200}	

Note: 1. The allowable load is the maximum allowable load in a static state.
2. Standard product

Fixing hole drillable type





Material: Bolt = Stainless steel (SUS304)

Main body plate = Reinforced polyamide

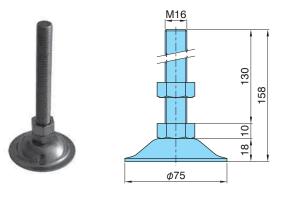
Antiskid rubber pad = Oil-resistant rubber: Shore hardness 70

The fixing hole is not completely drilled through so as to prevent the accumulation of foreign matter. If a fixing hole is needed, punch a hole with a punch and hammer as shown.

Tsubaki model no.	Allowable load kN {kgf}	
TP-C17237T-UF	30.0 {3060}	

Note: 1. The allowable load is the maximum allowable load in a static state.

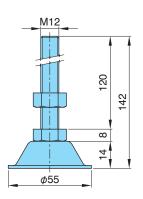
Standard product



Tsubaki model no.	Mate	Load capacity	
isobaki model no.	Foot	Bolt & nut	kN {kgf}
TP-TA16SUS	Stainless steel	Stainless steel	11 {1122}

Note: Made-to-order product

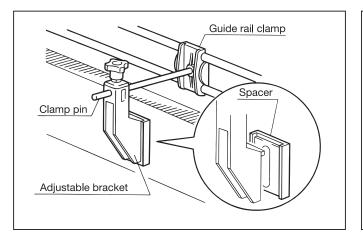


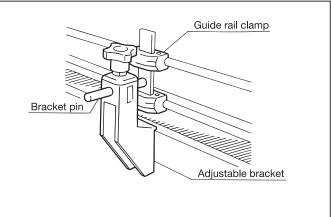


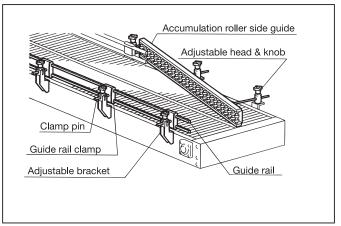
Tsubaki model no.	Mate	Load capacity kN {kgf}	
isubaki model no.	Foot	Bolt & nut	kN {kgf}
TP-TB12SUS	Stainless steel	Stainless steel	10 {1020}

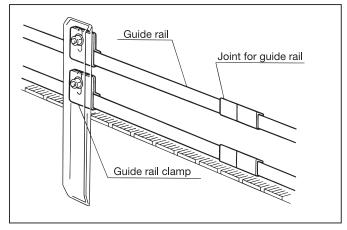
Note: Made-to-order product

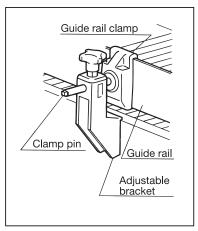
Guide Rail Installation Examples

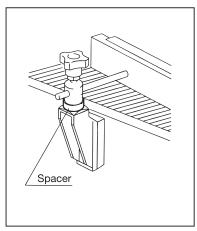


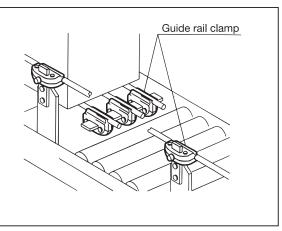


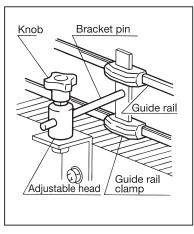


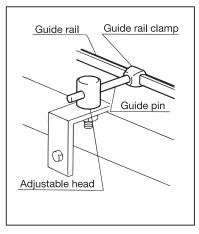


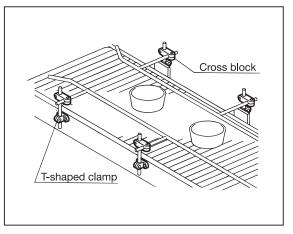




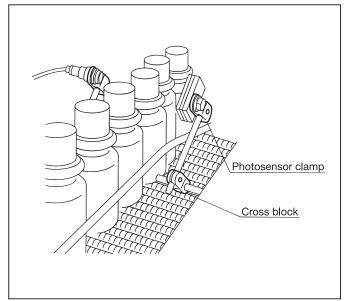


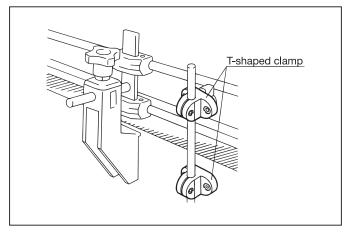


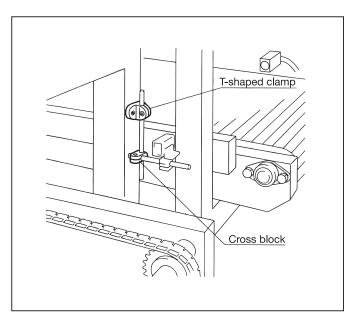


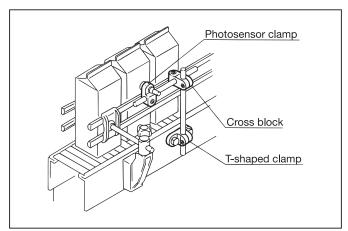


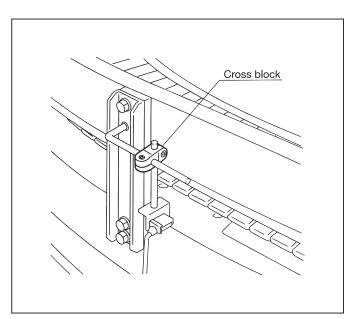
Sensor Installation Examples

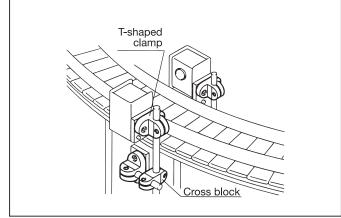


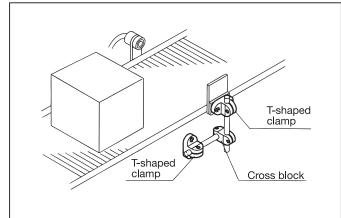




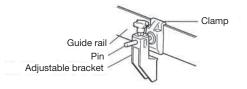








Combination Table



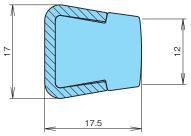
		Pin				
		Clamp pin	Bracket pin	Guide pin	Adjustable	Adjustable
Guide rail	Compatible clamp				bracket	head
			Pin diameter	Pin diameter		
	For 8mm dia. round bar	φ12, φ14, φ16	φ12, φ14, φ16	φ14		
Round bar	TP-C13743T-GRC For 10mm dia. round bar TP-C13741T-GRC	Clamp Can be used Bracket with all pin s Take care to ensure t screw end of the clar	he he			
	TP-GHB For 12mm dia. round bar TP-C13744NVT-GRC	pin does not protrud from the guide rail.	e Co			
	For 12mm dia. round bar TP-C13761XPT-GRC	Can be used with all pin sizes.	_		Fixed type	
TP-C19S00130-3MT-GR	TP-C13007T-GRC	Clamp Can be used Bracket with all pin s	izes izes	_		
	TP-C13008NVT-GRC	Can be used with all sizes.	_	_	Pin dia. Model φ 12 TP-C13696T-GRB	Pin dia. Model
TP-C19S00165-3MT-GR	TP-C13012T-GRC	_	Can be used only with a 14mm dia. pin.	_	φ 14 TP-C13697F-GRB TP-AO	φ12 TP-C13029T-SH φ14 TP-C13029T-SH
	TP-C13006NVT-GR	_	_	Can be used with all sizes.	Revolving type	d.
	TP-C13014T-GRC	Clamp Can be used Bracket with all pin	sizes	_	I	•
	TP-C13120T-GRC (for rail joint)	_	_	_		Pin dia. Model φ12 TP-C13037T-SH φ14 TP-C13038T-SH Note: Use
TP-C19050LT-GR	TP-C13718T-GRC	Can be used with all sizes.	_	_	Pin dia. Model	TP-C13355T-HD knob.
Accumulation roller side guide		_	Can be used with all sizes.	_		
			wiiri ail sizes.			

Guide Rail (GR)

For an example of installation, refer to page 223.



Use the guide rail to prevent conveyed objects from overturning or being scratched.

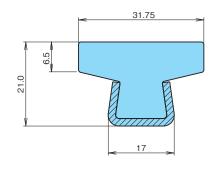


Material: UHMW-PE Stainless steel frame

Tsubaki model no.	Standard length	Color	Mass kg/m
TP-C19S00130-3MT-GR	3m	White	0.6

Note: Standard product

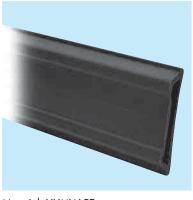


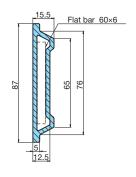


Material: UHMW-PE Stainless steel frame

Tsubaki model no.	Standard length	Color	Mass kg/m
TP-C19S00165-3MT-GR	3m	White	0.86

Note: Standard product





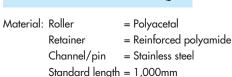
Material: UHMW-PE

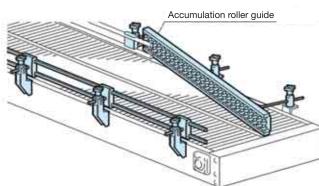
Tsubaki model no.	Standard length	Color	Mass kg/m
TP-C19050LT-GR	3m	Black	0.6

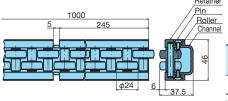
Accumulation Roller Side Guide (ARG)

For an example of installation, refer to page 223.

The accumulation roller side guide reduces the chances of conveyed objects being scratched by the rollers. Use this part as a guide in the accumulation areas of the conveyor.

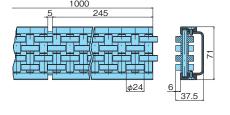






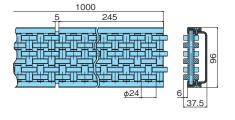
Tsubaki model no.	Mass kg/m
TP-C16686LSST-ARG	2.6

Note: Standard product



Tsubaki model no.	Mass kg/m
TP-C16683LSST-ARG	3.8

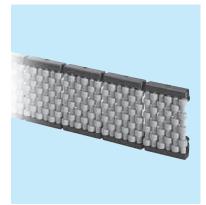
Note: Standard product



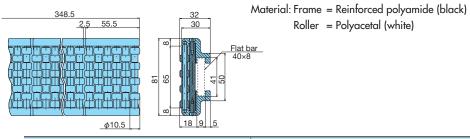
Tsubaki model no.	Mass kg/m
TP-C16689LT-ARG	5

Note: Standard product

Roller Module Side Guide (Curve Type) (ARG)



The roller module side guide reduces the chances of conveyed objects on the curved section from being scratched.



Tsubaki model no.	Standard length mm
TP-C16801KT-ARG	348.5

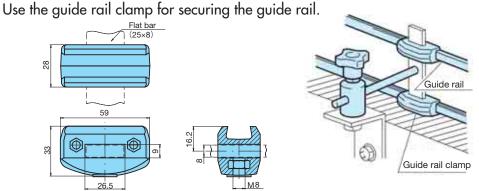
- Note: 1. Minimum sideflex radius: inner radius R250, outer radius R300
 - 2. Use this part in combination with a 40x8 flat bar.
 - 3. Standard product

Guide Rail Clamp (GRC)

For an example of installation, refer to page 223.



Material: Body = Reinforced polyamide Bolt = Stainless steel = Nickel-plated brass

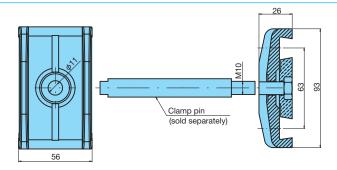


Tsubaki model no.	Compatible guide rail	Part to be clamped with
TP-C13007T-GRC	TP-C19S00130-3MT-GR TP-C19S00165-3MT-GR	Flat bar 25×8

Note: Standard product



Material: Body = Reinforced polyamide



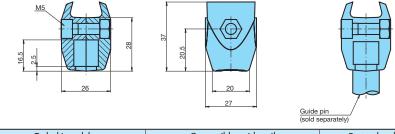
Tsubaki model no.	Compatible guide rail	Part to be clamped with
TP-C13008NVT-GRC	TP-C19S00130-3MT-GR TP-C1.9S00165-3MT-GR	Clamp pin

Note: Standard product



Material: Body = Reinforced polyamide Bolt = Stainless steel

Nut = Nickel-plated brass



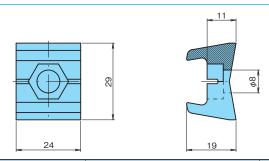
Isubaki model no.	Compatible guide rail	Part to be clamped with
TP-C13006NVT-GRC	TP-C19S00130-3MT-GR TP-C19S00165-3MT-GR	Guide pin

Note: 1. This guide rail clamp is stronger than the TP-C13012T-GRC clamp. Use this clamp in places where a stronger pressure is applied to rails (such as corner areas and accumulation lines).

2. Standard product



Material: Body = Reinforced polyamide



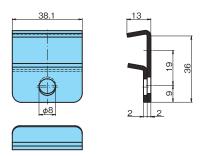
Tsubaki model no.	Compatible guide rail	Part to be clamped with
TP-C13012T-GRC	TP-C19S00130-3MT-GR TP-C19S00165-3MT-GR	Bracket pin φ14

Plastic Modular Chain

Product Guide Parts



Material = Stainless steel



Tsubaki model no.	Compatible guide rail	Part to be clamped with
TP-C13014T-GRC	TP-C19S00130-3MT-GR TP-C19S00165-3MT-GR	Frame

Note: Standard product

Guide rail joint



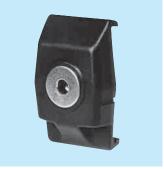
Material = Stainless steel

Tsubaki model no.	Compatible guide rail	
TP-C13120T-GRC	TP-C19S00130-3MT-GR TP-C19S00165-3MT-GR	

Note: 1. Use this part as a joint between guide rails. It eliminates the difference in level and any gap between guide rails.

Guide Rail Clamp (Exclusively for TP-C19050LT-GR Guide Rail) (GRC)

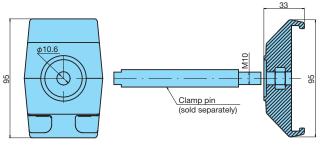
For an example of installation, refer to page 223.



Material: Body

= Reinforced polyamide

= Stainless steel Washer



Tsubaki model no.	Compatible guide rail	Part to be clamped with
TP-C13718T-GRC	TP-C19050LT-GR	Clamp pin

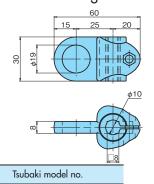
Note: Standard product

Photosensor Clamp (FSC)



Material: Body = Reinforced polyamide Bolt = Stainless steel Nut

Use this clamp in combination with the cross block or T-shaped clamp when installing a sensor.



TP-C13153T-FSC

Note: Standard product

Bolt tightening torqueAllowable load of pin (holding force)

Photosensor clamp

For an example of installation, refer to page 224.

2.94N·m {0.3kgf·m} 49.0N {5kgf}

Dimensions in mm

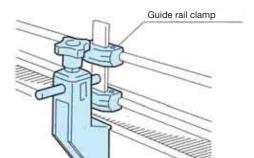
For an example of installation, refer to page 223.

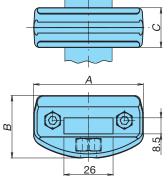
Guide Rail Clamp (for Round Bar) (GRC)

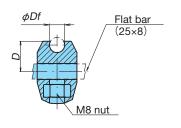
Use this guide rail clamp for securing the round bar guide.



Bolt = Stainless steel Nut = Nickel-plated brass



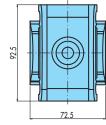


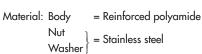


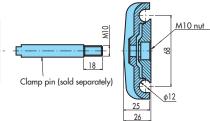
Tsubaki model no.	Df	Α	В	С	D	Flat bar
TP-C13743T-GRC	8	58	33	21	16	
TP-C13741T-GRC	10	58	33	21	16	25×8
TP-C13744NVT-GRC	12	59	34.5	24	19	

Note: Standard product





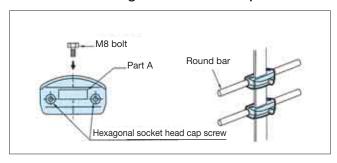




Tsubaki model no.	Compatible round bar
TP-C13761XPT-GRC	φ12

Note: Standard product

Notes for Handling Guide Rail Clamp



Work procedure:

- 1. When the hexagonal socket head cap screw fitted on the clamp is removed, the clamp is split into two parts.
- 2. Hold the round bar with the two clamp parts, and fasten the hexagonal socket head cap screw again.
- 3. Insert the flat bar (25×8) into part A, and secure it with the bolt (M8). (Hold the flat bar at the tip of the bolt.)
- 4. Adjust the position according to the height of the object to be conveyed.
- 5. The TP-C13007T-GRC guide rail clamp (page 228) can be installed by following the same procedure.

Dimensions in mm

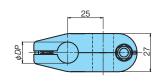
Cross Block (CC)

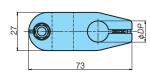
Use the cross block in combination with the T-shaped clamp or photosensor clamp when installing the guide or sensor.

For exclusive use with round bar guide



Material: Body = Polyacetal Bolt = Stainless steel Nut

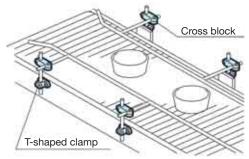




Tsubaki model no.

TP-C13S00109T-CC

For an example of installation, refer to page 224.



- Bolt tightening torque
- Allowable load of pin (holding force)

2.94N·m {0.3kgf·m} 49.0N {5kgf}

φDP
φ15

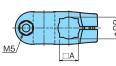
Note: Standard product

For use with round bar and square bar guide



Material: Body = Polyacetal Bolt = Stainless steel Nut

	53.6 16_	·]	
ФДР		-O	21
	□A		



- Bolt tightening torque
- · Allowable load of pin (holding force)

 $2.94N\cdot m~\{0.3kgf\cdot m\}$ 49.0N {5kgf}

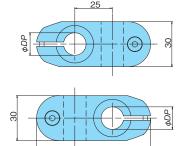
Tsubaki model no.	φDP	□A
TP-C13S00114T-CC	10	8
TP-C13S00115T-CC	12	10
TP-C13S00116T-CC	14	12

Note: Standard product

High-strength type



Material: Body = Reinforced polyamide = Stainless steel



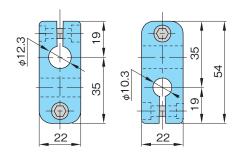
- Bolt tightening torqueAllowable load of pin (holding force)

4.9N·m {0.5kgf·m} 98.1N {10kgf}

Tsubaki model no.	φDP
TP-C13108T-CC	15

Cross Block



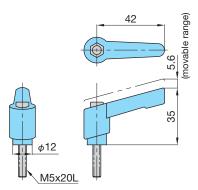


Tsubaki	Material	
model no.	Body	Bolt & nut
TP-CRB Reinforced polyamide		Stainless steel

Note: Standard product

Clamp Lever



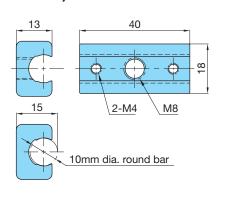


Tsubaki	Material		
model no.	Body	Bolt & nut	
TP-CL	Reinforced polyamide	Stainless steel	

Note: Made-to-order product

Guide Bar Holder (for Bracket)



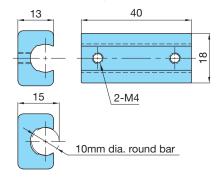


Tsubaki model no.	Material
TP-GHB	Stainless steel (sintered)

Note: Made-to-order product

Guide Bar Holder (for Connection)





Tsubaki model no.	Material
TP-GHA	Stainless steel (sintered)

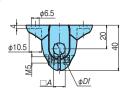
Note: Made-to-order product

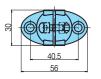
T-Shaped Clamp (TC)

For use with round bar and square bar guide

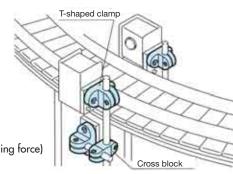


 $\begin{array}{c} \text{Material: Body} &= \text{Reinforced polyamide} \\ & \begin{array}{c} \text{Bolt} \\ \text{Nut} \end{array} \end{array} \bigg\} = \text{Stainless steel}$



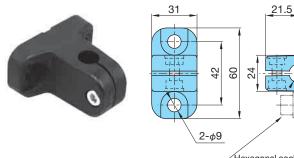


- Bolt tightening torque 2.94N·m {0.3kgf·m}
- Allowable load of pin (holding force)
 49.0N (5kgf)



Tsubaki model no.	φDf	□А
TP-C13152T-TC	10	8
TP-C13115T-TC	12	10

Note: Standard product

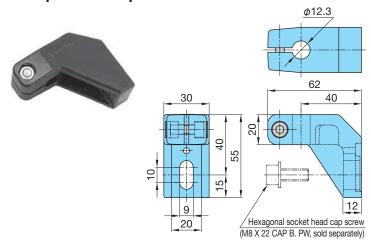


Hexagonal socket head cap screw (M8 x 20 Cap. B. PW, sold separately)

Tsubaki	Material		
model no.	Body	Bolt & nut	
TP-TC	Reinforced polyamide	Stainless steel	

Note: Standard product

L-Shaped Clamp



Tsubaki model no.	Material				
	Body	Bolt & nut			
TP-LC	Reinforced polyamide	Stainless steel			

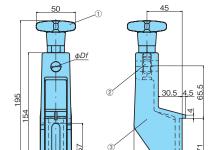
Adjustable Bracket (GRB)

Use the adjustable bracket in combination with the clamp to secure the guide.

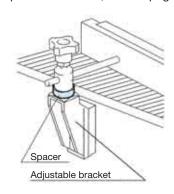


Material: Eyebolt = Stainless steel = Nickel-plated brass nut inserted into polyamide Bracket = Reinforced polyamide

- 1 Knob 2 Eyebolt
- ③ Bracket



For an example of installation, refer to page 223.



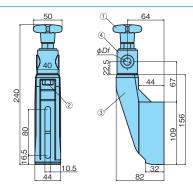
Tsubaki model no.	Df
TP-C13696T-GRB	12
TP-C13697T-GRB	14

Note: 1. Standard product

2. For the pin to use, see page 238. 3. TP-C13250T-TS or TP-C13255-TS (tray supporter) can be installed in the groove on the back of the main body.

Revolving type





Material: Bracket & adjustable head = Reinforced polyamide Eyebolt & nut = Stainless steel

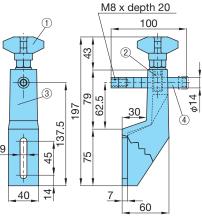
- 1 Knob
- 2 Nut
- ③ Bracket
- 4 Adjustable head (rotatable 360 degrees)

Tsubaki model no.	Df
TP-C13054T-GRB	12
TP-C13055T-GRB	14

Note: 1. Standard product

For the pin to use, see page 238.
 TP-C13250T-TS or TP-C13255-TS (tray supporter) can be installed in the groove on the back of the main body.





Material: Knob = Nickel-plated brass nut inserted into polyamide Eyebolt = Nickel-plated brass Bracket = Reinforced polyamide Adjustment pin = Stainless steel

- ① Knob
- 2 Eyebolt
- 3 Bracket
- 4 Adjustment pin

Tsubaki model no. TP-A0

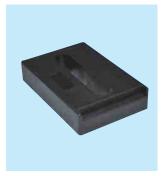
Note: 1. Standard product

2. The model number is "A zero."

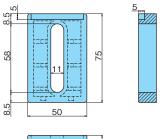
Spacer (SP)

Use the spacer to adjust the height and width of the adjustable bracket.

For width adjustment



Material: Reinforced polyamide





For an example of installation, refer to page 223.

Tsubaki model no.	Compatible adjustable bracket
TP-C13400T-SP	TP-C13696T-GRB TP-C13697T-GRB

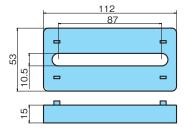
Adjustable bracket

Note: 1. Standard product

2. There is a groove on the back in which TP-C13250T-TS or TP-C13255-TS (tray supporter) can be installed.







Tsubaki model no.	Compatible adjustable bracket		
TP-C13019T-SP	TP-C13054T-GRB TP-C13055T-GRB		

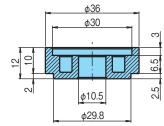
Note: 1. Standard product

 There is a groove on the back in which TP-C13250T-TS or TP-C13255-TS (tray supporter) can be installed. A number of trays can be installed in a stack

For height adjustment



Material: Reinforced polyamide

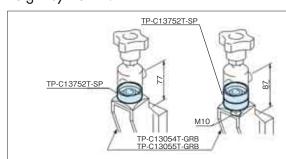


Tsubaki model no.	Compatible adjustable bracket
TP-C13752T-SP	TP-C13054T-GRB TP-C13055T-GRB

Note: Standard product

Notes for Handling Spacer

Install the spacer under the adjustable head of the rotating adjustable bracket. One spacer increases the height by 10mm.



A long M10 set screw is needed to use the spacer.

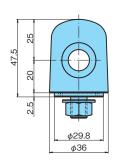
M10 X 30 L hexagonal head bolt for using one spacer M10 X 40 L hexagonal head bolt for using two spacers

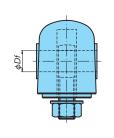
Adjustable Head (SH)

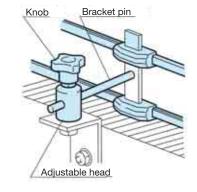
Use the adjustable head in combination with the clamp to secure the guide.



Material: Head = Reinforced polyamide Portion other than head = Stainless steel







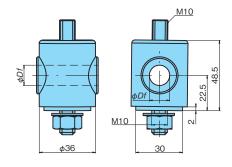
For an example of installation, refer to page 223.

Tsubaki model no.	Df
TP-C13028T-SH	12
TP-C13029T-SH	14

Note: Standard product



Material: Head = Reinforced polyamide Portion other than head = Stainless steel



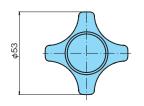
Tsubaki model no.	Df
TP-C13037T-SH	12
TP-C13038T-SH	14

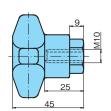
Knob (HD)



Material: Knob = Reinforced polyamide Threaded portion = Nickel-plated brass

For an example of installation, refer to page 223.





Tsubaki model no.	Compatible adjustable bracket
TP-C13355T-HD	TP-C13037T-SH TP-C13038T-SH

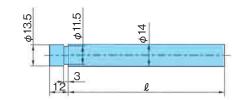
Note: 1. Standard product
2. For use with TP-C13355T-HD knob

Guide Pin (GP)

This is a pin for exclusive use with the TP-C13006NVT-GRC guide rail clamp.



Material: Stainless steel



Tsubaki model no.	ℓ
TP-C14-100T-GP	100
TP-C14-200T-GP	200

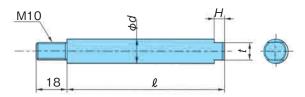
Note: Standard product

Clamp Pin (CP)

The external thread is on the securing side. Use the clamp pin in combination with the guide rail clamp and adjustable bracket.



Material: Stainless steel



Tsubaki model no.	Dimensions					
isubaki model no.	d	l	Н	t		
TP-C12-100T-CP	12	100	5	8		
TP-C12-200T-CP	12	200	5	8		
TP-C14-100T-CP	14	100	6	10		
TP-C14-200T-CP	14	200	6	10		
TP-C16-100T-CP	16	100	8	13		
TP-C16-200T-CP	16	200	8	13		

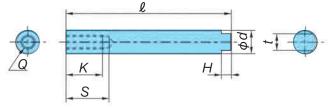
Note: Standard product

Bracket Pin (BP)

The internal thread is on the securing side. Use the bracket pin in combination with the guide rail clamp and adjustable bracket.



Material: Stainless steel



Tsubaki model no.	Dimensions						
isobaki model no.	d	l	Н	t	Q	S	K
TP-C12-100T-BP	12	100	5	8	M6	24	20
TP-C12-200T-BP	12	200	5	8	M6	24	20
TP-C14-100T-BP	14	100	6	10	M8	26	22
TP-C14-200T-BP	14	200	6	10	M8	26	22
TP-C16-100T-BP	16	100	8	13	M10	30	27
TP-C16-200T-BP	16	200	8	13	M10	30	27

Note: Standard product

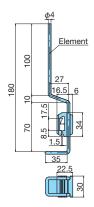
Dimensions in mm

Tray Supporter (TS)

Curve type



Material: Body = Polyamide Element = Stainless steel

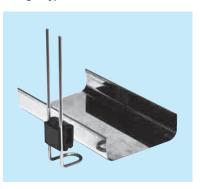


Tsubaki model no.

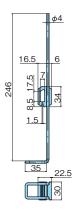
TP-C13250T-TS

Note: 1. Standard product
2. The tray is to be prepared by the customer.

Straight type



Material: Body = Polyamide Element = Stainless steel



Tsubaki model no.

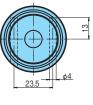
TP-C13255T-TS

Note: 1. Standard product
2. The tray is to be prepared by the customer.

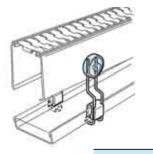
Fixing Washer (MP)



Material: Plate = Polyamide Washer = Stainless steel







Set the tray supporter and M10 bolt and fit the tray supporter

Tsubaki model no.

TP-C13252T-MP

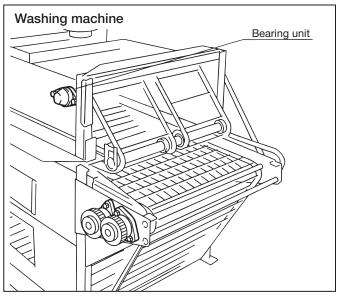
Note: 1. Standard product

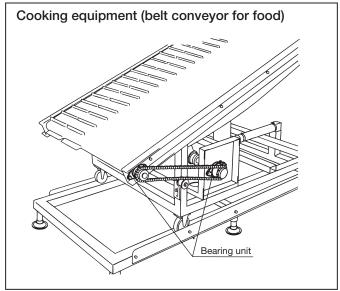
2. The tray is to be prepared by the customer.

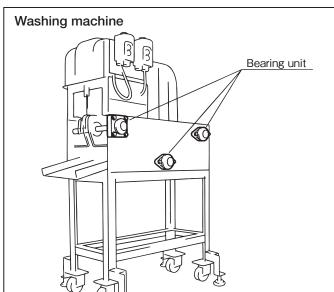
Bearing Units

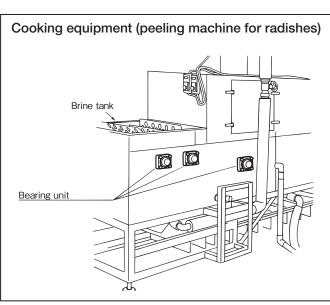
Bearing Unit) Installation Examples

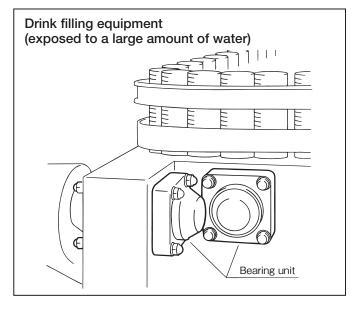
Since the bearing unit is sealed both on the top and bottom surfaces, the bearing can have a longer service life when used in a wet or dusty environment.

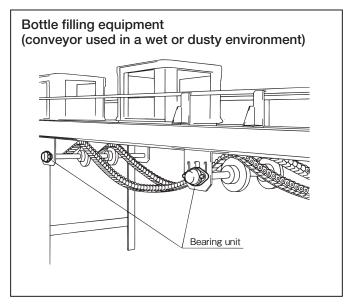












Bearing Units

Bearing Units

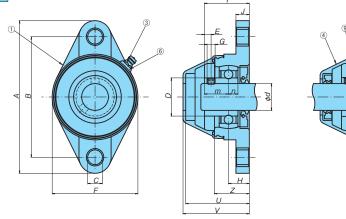
Since the bearing unit is sealed both on the top and bottom surfaces, it can have a longer service life when used in a wet or dusty environment.

Diamond Flange Unit (UCFL)

Closed type











Part no.	Part name	Material
1	Housing	Reinforced polyamide
2	Ball bearing*1	Steel
3	Grease nipple	Nickel-plated brass
4	Safety cap	Polypropylene
(5)	Spacer bush	Nickel-plated brass

Part no.	Part name	Material
6	Grease nipple washer	Polyethylene
7	Washer*2	SUS304
8	Seal	NBR
9	O-ring	NBR

Note: 1. The ball bearing is of the set-screw type.

2. The washer is not supplied with the diamond flange unit.

Tsubaki model no.	Time		ed load of kN {kgf}	Max. allowable load	Mass
isobaki model no.	Туре	Dynamic	Static	of housing kN {kgf}	kg
TP-C54204NR-ECT-UCFL	Closed	9.9	6.6	7.5	0.21
TP-C59204NR-ECT-UCFL	Open	{1000}	{670}	{765}	0.21
TP-C54205NR-ECT-UCFL	Closed	10.8	7.8	8.0	0.31
TP-C59205NR-ECT-UCFL	Open	{1100}	{795}	{81 <i>5</i> }	0.51

■ Self-Alignment

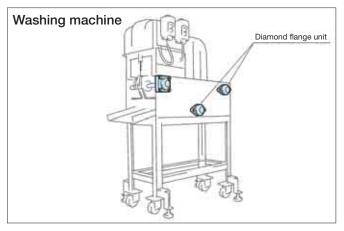
Maximum angle error between housing and shaft: $2^{\circ}\,$

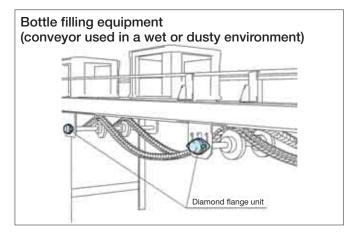
■ Operating Temperature Range 0°C to 80°C

	Dimensions in mm															
Tsubaki model no.	Shaft diameter d	Α	В	С	D	Е	F	G	Н	J	Z	Т	m	n	U	V
TP-C54204NR-ECT-UCFL	20	114	90	11	29	E	64	M6×0.75	15.5	10	26	33.5	18	7	47 E	49.5
TP-C59204NR-ECT-UCFL	20	114	90	'	29	5	04	04 M0x0.73	13.3	10	20	33.5	10	'	47.5	49.5
TP-C54205NR-ECT-UCFL	25	130	99	11	34	5.5	70	M6×0.75	17	12.5	29	36.5	19.5	7.5	52.2	54.2
TP-C59205NR-ECT-UCFL	25	130	77	11	34	3.3	/0	MOXU.73	17	12.5	27	30.5	17.5	7.5	32.2	34.2

Note: Standard product

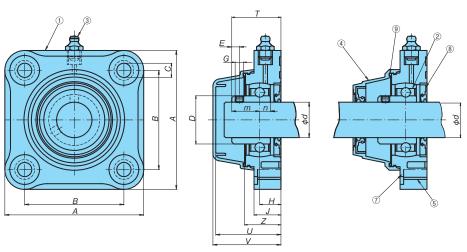
Diamond Flange Unit Installation Examples





Square Flange Unit (UCF)





Note: 1. The part specifications are the same as those of the diamond flange unit.

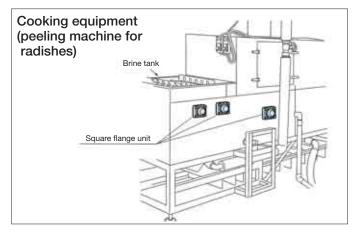
2. Grease nipple washer (§) is not supplied with the square flange unit.

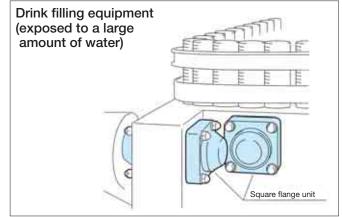
Tsubaki model no.	Туре	Basic rate bearing	Max. allowable load of housing	Mass	
isobaki model no.	туре	Dynamic	Dynamic Static		kg
TP-C50205ART-UCF	Closed	10.8	7.8	13.0	0.42
TP-C55205ART-UCF	Open	{1100}	{795}	{1320}	0.42
TP-C50206RT-UCF	Closed	15.0	11.3	13.0	0.59
TP-C55206RT-UCF	Open	{1530}	{1150}	{1320}	0.37
TP-C50207NT-UCF	Closed	19.7	15.3	13.0	0.9
TP-C55207NT-UCF	Open	{2000}	{1560}	{1320}	0.9
TP-C50208FRT-UCF	Closed	22.4	17.9	12.5	0.98
TP-C55208FRT-UCF	Open	{2280}	{1830}	{1270}	0.70

	Dimensions in mm														
Tsubaki model no.	Shaft diameter d	A	В	С	D	Е	G	Н	J	Z	Т	m	n	U	V
TP-C50205ART-UCF	- 25	98	70	11	34	5.5	M6×0.75	15	19	25	34.5	19.5	7.5	50	52
TP-C55205ART-UCF		70	/0	11	34	5.5	M6x0.75	15	19	23	34.5	17.5	7.5	30	52
TP-C50206RT-UCF	30	110	83	11	40.3	6.0	M6×0.75	18	25	31	40	22	8	53	55
TP-C55206RT-UCF	30	110	03	3 11	40.3	0.0	M6x0.73	10	23	31	40	22	0	55	33
TP-C50207NT-UCF	35	118	92	14	48	6.5	M8×1.00	20	25	35	43.5	23.5	8.5	67	69
TP-C55207NT-UCF	35	110	92	14	40	0.5	M6×1.00	20	25	33	43.5	23.3	0.5	0/	09
TP-C50208FRT-UCF	40	130	101.5	14	53	7.0	M8×1.00	20	25	35	45	25	9	67	40
TP-C55208FRT-UCF	40	130	101.5	14	55	_ /.0	.0 ///0×1.00	20	25	33	45	25	9	6/	69

Note: Standard product

Square Flange Unit Installation Examples





Bearing Units

Notes for Handling

1-1 Shaft Design

Chamfer the corners of the shaft (approx. R1.5) so as not to damage a seal or other parts when the bearing is inserted.

The shaft is loosely fitted in general. Refer to Table 1 for the shaft's dimensional tolerance.

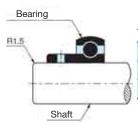
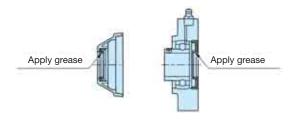


Table 1: Dimensional Tolerance of Shaft

h9
h8
h7

1-2 Installation to Shaft

1) Apply grease to the seal inner surface (surface in contact with the shaft) before installation.



2) The bearing is of the set-screw type. Clamp the two bearings uniformly referring to the tightening force in Table 2.

Table 2: Tightening Torque of Set Screw

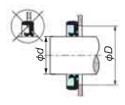
Shaft diameter d	Nominal size of screw	Recommended tightening torque N·m {kgf·m}
φ20		
φ25	M6 × 0.75	3 {0.3}
φ30		
φ35	M8 × 1.00	7 {0.7}
φ40	700 X 1.00	7 (0.7)

1-3 Installation of Housing

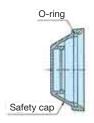
Make the hole diameter D in the frame installing surface smaller than Dmax so that the seal is not removed. Make the hole diameter D larger than Dmin so as to allow grease to be discharged.

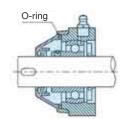
Table 3: Tightening Torque of Set Screw

Shaft diameter d	Dmin	Dmax
φ20	30	42
φ 25	35	45
φ30	45	55
φ 35	50	60
φ 40	55	70



Set the O-ring on the safety cap, and fit it securely in the main body.





Maintenance

2-1 Grease Nipple

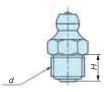


Table 4: Grease Nipple Dimensions

	Thread d	Н
Diamond flange type	M6	6.5
Square flange type	1/8" GAS	6.5

2-2 Grease

The bearing units are lubricated with H1-grade grease for food machines prior to shipment. Supply grease equivalent to this when replenishing.

2-3 Lubrication Interval

Use only grease for lubrication. Do not use oil. The lubrication interval changes depending on operating conditions such as temperature, load, and speed. Refer to Table 5 as a guide for the lubrication interval. Supply grease slowly when lubricating the machine so as not to damage the seal.

Table 5: Grease Lubrication Interval (Reference)

Rotating speed r/min	Operating temperature	Environmental condition	Lubrication interval
100	50°C or less		Every 6 months
500	70°C or less	Clean	Every 3 to 8 months
1000	90°C or less	Clean	Every 20 to 90 days
1500	90°C or less		Every 7 to 15 days

For Your Safety When Using the Chain



Warning

To avoid danger, observe the following rules.

General

- Do not use chain or chain accessories for any purpose other than their originally intended use.
- Never perform additional work on chain (including machining, grinding, annealing, cleaning with acids or alkalis, electroplating, or welding or cutting with a torch
 which will cause heat effects). These processes may cause the chain to break during operation, leading to a risk of severe injury.
- When replacing a worn or damaged part, do not replace just the worn or damaged part. Replace all parts with new parts. The chain may break during operation, leading to a risk of severe injury.
- When using chain in a lifting device, set up a safety barrier and do not allow anyone to go under the equipment. Also, when jigs or tools are connected to the edges
 of the chain, be sure to adequately lubricate the connecting parts. Detachment of the chain or unexpected chain breakage may lead to severe injury from flying or
 falling parts.
- Strictly observe the general guidelines listed in Section 1, Chapter 1, 2nd Edition of the Japanese Occupational Safety and Health Regulations as well as rules and regulations concerning occupational safety and health in your region/country. Always install safety equipment (safety covers, etc.) on chain and sprockets. There is a risk of severe injury from conveyed items or the chain as a result of becoming caught in the chain or from unexpected chain breakage.
- Chain and sprockets must be inspected on a regular basis. Damaged parts, or parts that have reached the end of their service life, should be replaced with new parts. There is a risk not only of the chain not functioning properly, but also of severe injury from chain breakage or abnormal operation. Perform the work as instructed in the manual, catalog or other documentation that was provided with the product.

During Installation

- Before starting work, turn off the power switch and take measures to prevent it from being turned on accidentally. There is a risk of severe injury from becoming caught in the chain.
- · Always wear safety goggles when using hammers while working to connect chains. There is a risk of severe injury from flying metal fragments or splinters.
- Secure the chain and parts to prevent them from moving freely. There is a risk of severe injury from chain components moving under their own weight, or from falling and body parts becoming pinched in the chain.



Caution

To prevent accidents, observe the following rules.

- · Understand the structure and specifications of the chain that you are handling.
- Before installing chain, inspect it to make sure no damage occurred during delivery.
- · Inspect and maintain chain and sprockets at regular intervals.
- . Chain strength varies by manufacturer. Only Tsubaki products should be used when chain is selected using Tsubaki catalogs.
- Start and stop the chain gradually, and do not subject it to sudden impact.
- . Do not apply initial tension to the chain.
- . Consult with a Tsubaki representative before using the chain in cases where it will be in contact with special liquids or used under special environments.
- . When disconnecting chains that have engineering plastic pins, do not reuse a pin once removed since it may not engage properly or it may even come loose.
- When using chains with engineering plastic pins under wet conditions, make sure that the temperature does not exceed 60°C.
- The link material for ULF ultra low friction series contains silicone-based lubricant. Therefore, do not use this chain for printing processes, or in cases where silicone will have a harmful effect.
- The TP-IR18/IR60/RR55 (return rollers), PR520-M (M plastic rail), and SJ-CNO are dry conveyor parts (lube-free, no water adhesion). DIA, MPD, MF, HS, and KV150 chains are specifically for dry environments. Do not use these on a conveyor under wet conditions (environments where they will come into contact with water, soapy water or other liquids), since this may cause the chain to malfunction. Bearing corner discs are also designed for use in dry environments.
- Using a plastic top chain in a wet environment will decrease the resin's self-lubricating ability and thus shorten the life of the chain. Since this is especially true with stainless steel pins, we recommend using plastic pins or KV series chain.
- The operating temperature range for accessories, sprockets, and idler wheels made of UHMW-PE (ultra-high molecular weight polyethylene) is -20°C to 60°C. Also, do not use in environments where such components will be exposed to steam.
- Toxic gases may be generated if the Chemical Resistant series (including Super Chemical Resistant) is exposed directly to open flame, or to temperatures above 150°C. Do not expose to excessive heat or to open flame.
- Plastic chain is flammable. Do not use at temperatures above the maximum allowable temperature or use near open flame. Combustion may generate dangerous toxic gases.



Warranty

1. I IMITED WARRANTY

Products manufactured by Seller: (a) conform to the design and specifications, if any, expressly agreed to in writing by Seller; and (b) are free of defects in workmanship and materials at the time of shipment. The warranties set forth in the preceding sentence are exclusive of all other warranties, express or implied, and extend only to Buyer and to no other person. ALL WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY EXCLUDED.

2. NON-RELIANCE

Buyer is not relying upon any advice, representations or warranties (except the warranties expressly set forth above) of Seller, or upon Seller's skill or judgment regarding the Seller's products.

Buyer is solely responsible for the design and specifications of the products, including without limitation, the determination of suitability for Buyer's application of the products.

3. CLAIMS

- (a) Any claim relating to quantity or type shall be made to Seller in writing within 7 days after receipt of the products; any such claim made thereafter shall be barred.
- (b) Any claim under the above-stated Limited Warranty shall be made to Seller in writing within three (3) months after receipt of the products; any such claim made thereafter shall be barred.
- (c) Seller's liability for breach of warranty or otherwise is limited to repair or replacement, at Seller's option, of non-conforming or defective products. Buyer waives all other remedies, including, but not limited to, all rights to consequential, special or incidental damages, including, but not limited to.

- damages resulting from personal injury, death or damage to or loss of use of property.
- (d) Repair, alteration, neglect or misuse of the products shall void all applicable warranties.

4. INDEMNIFICATION

Buyer will indemnify, defend and hold Seller harmless from all loss, liability, damage and expense, including attorneys' fees, arising out of any claim (a) for infringement of any patent, trademark, copyright, misappropriation of trade secrets, unfair competition or similar charge by any products supplied by Seller in accordance with the design or specifications furnished by Buyer, or (b) arising out of or connected with the products or any items into which the products are incorporated, including, but not limited to, any claim for product liability (whether or not based on negligence or strict liability of Seller), breach of warranty, breach of contract or otherwise.

5. ENTIRE AGREEMENT

These terms and conditions constitute the entire agreement between Buyer and Seller and supersede any inconsistent terms and conditions, whether contained in Buyer's purchase order or otherwise, and whether made heretofore or hereafter.

No statement or writing subsequent to the date hereof which purports to modify or add to the terms and conditions hereof shall be binding unless consented to in writing, which makes specific reference hereto, and which has been signed by the party against which enforcement thereof is sought. Seller reserves the right to change these terms and conditions without prior notice.



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