### WT2515F-W Flight Type Features

#### Inclined/Declined Conveyance
- Boxes, cases, and bulk items can be conveyed with an inclined/declined layout.

#### Food Sanitation
- CB and HTW types comply with the Japan’s Food Sanitation Act.
  - CB type features a special low-friction wear-resistant polyacetal.
  - HTW type can be used in extreme environments with high temperatures (max. 105°C) and chemical exposure.

#### Easy Maintenance
- Chains are built by combining 25.4 mm pitch of modular links in 85 mm and 170 mm width. Fixing plugs can prevent pins from coming out. Easy maintenance when assembling and disassembling chains.
### Standard Combination

<table>
<thead>
<tr>
<th>Chain type</th>
<th>Chain pitch</th>
<th>Chain type</th>
<th>Flights</th>
<th>Chain width</th>
<th>Pitch of flights</th>
<th>Flight height</th>
<th>Indents</th>
<th>Chain material</th>
</tr>
</thead>
<tbody>
<tr>
<td>WT</td>
<td>25</td>
<td>15</td>
<td>F -</td>
<td>W1020 - 10L</td>
<td>F2</td>
<td>N3</td>
<td>HTW</td>
<td></td>
</tr>
</tbody>
</table>

25: 25.4 mm  5: Closed type  W1020: 1020 mm  10L: Every 10 links  F2: 2 inches  N3: 34 mm  HTW: High-temperature type

* Do not leave spaces between letters and symbols when ordering.

1. Chain width: Chain width can be assembled on every 85mm from min. 170mm width.
2. Pitch of flights: Flights can be assembled on every 2nd link or more.
3. Flight height: F2 = 2 inches (50.8 mm)  
   F3 = 3 inches (76.2 mm)
4. Indents: N0: 0 mm  
   N1: 17 mm  
   N3: 34 mm  
   N5: 51 mm
5. Chain material: CB: Low-friction wear-resistant type  
   HTW: High-temperature type

### Special Combination

<table>
<thead>
<tr>
<th>Chain type</th>
<th>Chain pitch</th>
<th>Chain type</th>
<th>Flights</th>
<th>Chain width</th>
<th>Chain material</th>
<th>Special type</th>
</tr>
</thead>
<tbody>
<tr>
<td>WT</td>
<td>25</td>
<td>15</td>
<td>F -</td>
<td>W1020 - HTW - TK</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

25: 25.4 mm  5: Closed type  W1020: 1020 mm  HTW: High-temperature type

Contact a Tsubaki representative when special elements are included except those of the standard combination, such as (1) Chain width, (2) Pitch of flight, (3) Flight height, and (4) Indent spacing.
## Plastic Modular Chain WT2515F-W Flight Type

### Straight

<table>
<thead>
<tr>
<th>Chain material</th>
<th>Chain pitch mm</th>
<th>Link Color</th>
<th>Open area %</th>
<th>Max. allowable load kN/m (kgf/m)</th>
<th>Max. allowable speed m/min</th>
<th>Max. allowable load kN/m² (kgf/m²)</th>
<th>Chain mass kg/m²</th>
<th>Operating temperature range °C</th>
<th>Pin material</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB</td>
<td>25.4</td>
<td>Blue</td>
<td>2</td>
<td>12.8[1305]</td>
<td>8.6</td>
<td>6.4(650)</td>
<td>5.7</td>
<td>–20 to (60) 80</td>
<td>Special engineering plastic</td>
</tr>
<tr>
<td>HTW</td>
<td>25.4</td>
<td>White</td>
<td>2</td>
<td>6.4(650)</td>
<td>5.7</td>
<td>5.7</td>
<td>5 to 105</td>
<td>Polypropylene</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
1. Operating temperature range of (60) is for wet conditions.
2. Values for maximum allowable load assume that tension acts uniformly over the entire chain width. These will vary according to operating conditions (temperature and speed). Contact a Tsubaki representative for allowable capacity graphs. Values for maximum allowable load in the table above show that the chain is one meter width. To calculate values for chain widths, multiply the chain width in question by the maximum allowable load for one-meter wide chain.
3. Contact a Tsubaki representative for availability of chain types (materials) not listed above.
4. Chain mass does not include flights. Contact a Tsubaki representative for chain mass with flights.
5. Plug color is yellow for CB (material: polyacetal) and blue for HTW (material: polypropylene).

### Chain (plastic pins)

#### Chain width X

<table>
<thead>
<tr>
<th>Chain width X</th>
<th>Low-friction wear-resistant type CB</th>
<th>High-temperature type HTW</th>
</tr>
</thead>
<tbody>
<tr>
<td>170</td>
<td>WT2515F-W170-CB</td>
<td>WT2515F-W170-HTW</td>
</tr>
<tr>
<td>255</td>
<td>WT2515F-W255-CB</td>
<td>WT2515F-W255-HTW</td>
</tr>
<tr>
<td>340</td>
<td>WT2515F-W340-CB</td>
<td>WT2515F-W340-HTW</td>
</tr>
<tr>
<td>425</td>
<td>WT2515F-W425-CB</td>
<td>WT2515F-W425-HTW</td>
</tr>
<tr>
<td>510</td>
<td>WT2515F-W510-CB</td>
<td>WT2515F-W510-HTW</td>
</tr>
<tr>
<td>585</td>
<td>WT2515F-W585-CB</td>
<td>WT2515F-W585-HTW</td>
</tr>
<tr>
<td>680</td>
<td>WT2515F-W680-CB</td>
<td>WT2515F-W680-HTW</td>
</tr>
<tr>
<td>765</td>
<td>WT2515F-W765-CB</td>
<td>WT2515F-W765-HTW</td>
</tr>
<tr>
<td>850</td>
<td>WT2515F-W850-CB</td>
<td>WT2515F-W850-HTW</td>
</tr>
</tbody>
</table>

**Notes:**
1. The standard assembly for chain width increases on every 85 mm. Chains wider than 850 mm can be made. Contact a Tsubaki representative.
2. Chain width X is a nominal width. Chain width is subject to expansion or contraction with changes in temperature. Expansion/contraction rate is 0.00015°C for CB type and 0.00011°C for HTW type based on reference temperature of 20°C.

### Flight Dimensions

**Decide on the following dimensions to assemble flights.**

- **Pitch of flights P** (The flights can be assembled from 50.8 mm pitch or longer. Contact a Tsubaki representative about assembling flights on every link.)
- **Flight height F** (Choose 50.8 mm or 76.2 mm.)
- **Indent N** (Required to support the chain on the return side with rollers or other parts. 17 mm, 34 mm, or 51 mm.)

*With an indent of 0 mm, the chain cannot be received by the rollers or other parts on the return side.*

---

**Note:** Flight type chains shall be quoted in each case.
**Sprocket**

<table>
<thead>
<tr>
<th>Model no.</th>
<th>Teeth</th>
<th>Pitch diameter $D_p$</th>
<th>Outer diameter $D_o$</th>
<th>Bore diameter $d$</th>
<th>Keyway</th>
<th>Bore shape</th>
<th>Shaft Material</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>WT-SW2250-16T30</td>
<td>16</td>
<td>130.2</td>
<td>130</td>
<td>φ30</td>
<td>8</td>
<td>Round</td>
<td>Round 30 cold drawn steel bar</td>
<td>Split</td>
</tr>
<tr>
<td>WT-SW2250-16T40</td>
<td>16</td>
<td>130.2</td>
<td>130</td>
<td>φ40</td>
<td>12</td>
<td>Round</td>
<td>Round 40 cold drawn steel bar</td>
<td>Split</td>
</tr>
<tr>
<td>WT-SW2250-16T40S</td>
<td>16</td>
<td>130.2</td>
<td>130</td>
<td>φ40</td>
<td>——</td>
<td>Square</td>
<td>Round 40 cold drawn steel bar</td>
<td>Split</td>
</tr>
<tr>
<td>WT-SW2250-18T30</td>
<td>18</td>
<td>146.3</td>
<td>146</td>
<td>φ30</td>
<td>8</td>
<td>Round</td>
<td>Round 30 cold drawn steel bar</td>
<td>Split</td>
</tr>
<tr>
<td>WT-SW2250-18T40</td>
<td>18</td>
<td>146.3</td>
<td>146</td>
<td>φ40</td>
<td>12</td>
<td>Round</td>
<td>Round 40 cold drawn steel bar</td>
<td>Split</td>
</tr>
<tr>
<td>WT-SW2250-18T40S</td>
<td>18</td>
<td>146.3</td>
<td>146</td>
<td>φ40</td>
<td>——</td>
<td>Square</td>
<td>Round 40 cold drawn steel bar</td>
<td>Split</td>
</tr>
</tbody>
</table>

**Notes**
1. Operating temperature range is -20°C to 80°C.
2. Square-bore sprockets are loosely fitted to the shaft to accommodate the thermal expansion between the chain and conveyor, as well as chain-sprocket installation errors.
3. Use round-bore sprockets only when the chain width is 680 mm or shorter and temperature variations are within 30°C.
4. Round-bore sprockets are loosely fitted to the shaft. When mounting consecutive sprockets in the width direction, fix one sprocket with set collars.
5. Models in boldface are standard products while models in normal face are made-to-order products.

---

**Idler Wheel**

<table>
<thead>
<tr>
<th>Model no.</th>
<th>Teeth</th>
<th>Pitch diameter $D_p$</th>
<th>Outer diameter $D_o$</th>
<th>Bore diameter $d$</th>
<th>Shaft Material</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>WT-SW2250-16T30IW-M</td>
<td>16</td>
<td>130.2</td>
<td>130</td>
<td>30</td>
<td>Round 30 cold drawn steel bar</td>
<td>Split</td>
</tr>
<tr>
<td>WT-SW2250-16T40IW-M</td>
<td>16</td>
<td>146.3</td>
<td>146</td>
<td>40</td>
<td>Round 40 cold drawn steel bar</td>
<td>Split</td>
</tr>
<tr>
<td>WT-SW2250-18T30IW-M</td>
<td>18</td>
<td>146.3</td>
<td>146</td>
<td>30</td>
<td>Round 30 cold drawn steel bar</td>
<td>Split</td>
</tr>
<tr>
<td>WT-SW2250-18T40IW-M</td>
<td>18</td>
<td>146.3</td>
<td>146</td>
<td>40</td>
<td>Round 40 cold drawn steel bar</td>
<td>Split</td>
</tr>
</tbody>
</table>

**Notes**
1. Operating temperature range is -20°C to 80°C.
2. Use only as an idler wheel.
* Please give us the following information when requesting for the quotation or inquiring about the WT2515F-W Flight Type Plastic Modular Chain.

---

**WT2515F-W Flight Type Plastic Modular Chain Inquiry Sheet**

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tel.</th>
<th>Fax</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Chain Material**

- □ Low-friction wear-resistant type CB (polyacetal: blue)
- □ High-temperature type HTW (polypropylene: white)

**Chain Width W**

- mm
- (Chain width 170 mm and wider on every 85 mm)

**Pitch of Flights P**

- mm
- (Assembling pitch from 50.8 mm on every 25.4 mm)

**Flight Height F**

- □ 50.8 mm
- □ 76.2 mm
- □ Special height (mm)
- * Maximum height 76.2 mm.

**Indent N**

- □ 0 mm
- □ 17 mm
- □ 34 mm
- □ 51 mm
- □ Other (mm)

---

**Equipment**

<table>
<thead>
<tr>
<th>Description</th>
<th>□ New installation</th>
<th>□ Remodeling</th>
<th>(Existing equipment: )</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(Scketch)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Layout**

<table>
<thead>
<tr>
<th>Horizontal Conveying Distance</th>
<th>(Drive side)</th>
<th>mm</th>
<th>(Driven side)</th>
<th>mm</th>
</tr>
</thead>
</table>

**Conveyed Object**

<table>
<thead>
<tr>
<th>Conveyed Object</th>
<th>Mass</th>
<th>kg/m²</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Conveying Speed</th>
<th>Ambient Temperature</th>
<th>°C</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Temperature of Conveyed Object</th>
<th>Conveyance Amount</th>
<th>kg/min</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Impact</th>
<th>□ No</th>
<th>□ Yes</th>
<th>(Description: )</th>
</tr>
</thead>
</table>

---
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.
- If this product is used in equipment to convey personnel, install protective device for safety on the equipment side.
- There is a risk of injury to personnel from a loss of equipment control and of damage to equipment.

Caution  To prevent accidents, observe the following rules.

- Understand the structure and specific cations 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 using chains with engineering plastic pins under wet conditions, make sure that the temperature does not exceed 60°C.
- 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.
- 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.
- 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.

Warning
- To avoid danger, observe the following rules.
- 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 using chains with engineering plastic pins under wet conditions, make sure that the temperature does not exceed 60°C.
- 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.
- 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.
- 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.

Caution
- To prevent accidents, observe the following rules.
- Understand the structure and specific cations 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 using chains with engineering plastic pins under wet conditions, make sure that the temperature does not exceed 60°C.
- 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.
- 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.
- 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. LIMITED WARRANTY
   Products manufactured by Seller: (a) conform to the design and specific cations, 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.

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 specific cations 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 whom enforcement thereof is sought.

The logo mark and goods name entered into this catalog are the trademark and registered trademark of Tsubakimoto Chain Co., Ltd. in Japan and other countries.
# Global Group Companies

## AMERICAS
- **United States of America**: U.S. Tsubaki Power Transmission, LLC  
- **Brazil**: Tsubaki Brasil Equipamentos Industriais Ltda.  
  +55 11-3253-5666 [http://tsubaki.ind.br/](http://tsubaki.ind.br/)
- **Canada**: Tsubaki of Canada Limited  
  +1 905-676-0400 [http://tsubaki.ca/](http://tsubaki.ca/)

## EUROPE
- **Netherlands**: Tsubakimoto Europe B.V.  
  +31 78-6204000 [http://tsubaki.eu/](http://tsubaki.eu/)
- **France**: Kabelschlepp France S.A.R.L.  
  +33 1-34846365 [http://kabelschlepp.fr/](http://kabelschlepp.fr/)
- **Germany**: Tsubaki Deutschland GmbH  
  +49 89-958467-50 [http://tsubaki.de/](http://tsubaki.de/)
  Tsubaki Kabelschlepp GmbH  
  +49 2762-4003-0 [http://kabelschlepp.de/](http://kabelschlepp.de/)
- **Italy**: Kabelschlepp Italia S.R.L.  
  +39 0331-350962 [http://kabelschlepp.it/](http://kabelschlepp.it/)
- **Russia**: ООО Tsubaki Kabelschlepp  
  +7 499-4180212 [http://kabelschlepp.ru/](http://kabelschlepp.ru/)
- **Spain**: Tsubaki Ibérica Power Transmission S.L.  
  +34 911-873450 [http://tsubaki.es](http://tsubaki.es)
- **United Kingdom**: Tsubakimoto U.K. Ltd.  

## INDIAN OCEAN RIM
- **Singapore**: Tsubakimoto Singapore Pte. Ltd.  
- **Australia**: Tsubaki Australia Pty. Limited  
- **India**: Tsubaki India Power Transmission Private Limited  
  +91 73580-80060 [http://tsubaki.in/](http://tsubaki.in/)
- **Indonesia**: PT. Tsubaki Indonesia Trading  
  +62 21-571-4230/1 [http://tsubakimoto.co.id/](http://tsubakimoto.co.id/)
- **Malaysia**: Tsubaki Power Transmission (Malaysia) Sdn. Bhd.  
  +60 3-7859-8585 [http://tsubaki.my/](http://tsubaki.my/)
- **New Zealand**: Tsubaki Australia Pty. Limited - New Zealand Branch  
- **Philippines**: Tsubakimoto Philippines Corporation  
  +63 2-808-0067 [http://tsubaki.ph/](http://tsubaki.ph/)
- **Thailand**: Tsubakimoto (Thailand) Co., Ltd.  
  +66 2-262-0687/9 [http://tsubaki.co.th/](http://tsubaki.co.th/)
- **Vietnam**: Tsubakimoto Vietnam Co., Ltd.  
  +84 24-6274-1449 [http://tsubaki.net.vn/](http://tsubaki.net.vn/)

## EAST ASIA
- **Korea**: Tsubakimoto Korea Co., Ltd.  
  +82 2-2183-0311 [http://tsubakimoto-tck.co.kr/](http://tsubakimoto-tck.co.kr/)
- **Taiwan**: Taiwan Tsubakimoto Co.  

## CHINA
- **China**: Tsubakimoto Chain (Shanghai) Co., Ltd.  
  +86 215396-6651/2 [http://tsubaki.cn/](http://tsubaki.cn/)