A new 7.5 mm-pitch chain has been added to our lineup of plastic modular chains.

Features of WT0705-W Plastic Modular Chain

- **Knife-edge conveyor applications**
- **Less noise**
- **Slit pins (plug-integrated pins)**
- **Conveyor belt replacements**

### Lineup in millimeter-width increments

- **WT0405-W** (4.5 mm pitch)  
  Min. width of 90 mm can be widened in 45 mm increments
- **WT0705-W** (7.5 mm pitch)  
  Min. width of 50 mm can be widened in 50 mm increments
- **BTC4-M** (12.7 mm pitch)  
  Fixed 50 mm width
- **WT1515-W** (15 mm pitch)  
  Min. width of 50 mm can be widened in 50 mm increments
- **WT1516-W** (15 mm pitch)  
  Min. width of 50 mm can be widened in 50 mm increments
A nose bar with a minimum radius of 3 mm allows a dead space of 19 mm between conveyors. This makes the WT0705-W ideal for conveying items as small as 30 mm in diameter. It also allows the WT0705-W to be used as a transfer unit between conveyor sections.

No need for dead plates, depending on the conveyed items and conveyance conditions.

Allows stable conveyance of items that can topple easily.

**Noise Comparison Test**

A noise comparison test revealed that the WT0705-W is on average 6.5 dB quieter than the 15 mm-pitch chain model.

**Test Conditions**

<table>
<thead>
<tr>
<th>Chain Type</th>
<th>Conveyor Length (mm)</th>
<th>Chain Width (mm)</th>
<th>Drive Section</th>
<th>Driven Section</th>
<th>Wearstrip</th>
</tr>
</thead>
<tbody>
<tr>
<td>WT0705-W800-LFG</td>
<td>500</td>
<td>800</td>
<td>Solid sprocket, 48T, MC Nylon</td>
<td>Roller bearing, UHMW-PE</td>
<td>Antistatic UHMW-PE (black)</td>
</tr>
<tr>
<td>WT1505-K33-LFG</td>
<td>838</td>
<td>838</td>
<td>Solid sprocket, 24T, UHMW-PE</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The 50 mm and 100 mm chains use slit pins, which allow smooth connection/disconnection of the chain modules. Chains wider than 100 mm use a pin and plug retention system.

The WT0705-W is available in millimeter-width increments and accommodates 50 mm and 100 mm widths—standard widths for conveyor belts. This makes it easy to replace existing belts with the WT0705-W.

Fixed width type: 50 mm, 100 mm

Wide type: Can be widened in 50 mm increments starting from 150 mm.
Chain

Min. back-flex radius: R10

WT0705-W Plastic Modular Chain
Closed, straight running, wide type

<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/m²]</th>
<th>Chain Mass kg/m²</th>
<th>Operating Temperature Range °C</th>
<th>Pin Material</th>
<th>Max. Allowable Speed m/min</th>
</tr>
</thead>
<tbody>
<tr>
<td>LFG</td>
<td>7.5</td>
<td>Green</td>
<td>1</td>
<td>2.5 (255)</td>
<td>5.9</td>
<td>-20 to (60) 80</td>
<td>Special engineering plastic</td>
<td>50 (30)</td>
</tr>
</tbody>
</table>

Note: 1. Values for the max. allowable load assume an ambient temperature of 20°C and that tension is uniform over the entire chain width. Values for the max. allowable load in the table above are for a 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 a one-meter (1 m) wide chain.
2. The operating temperature of (60) is for wet conditions.
3. Contact a Tsubaki representative for other chain materials.
4. The max. allowable speed of (30) is for when using nose bars made of UHMW-PE. Nose bars made of SJ-CNO (special polyamide) must be used without lubrication.
5. Standard chain length is 200 links (1.5 m).

<table>
<thead>
<tr>
<th>Chain Width X</th>
<th>Low Friction, Wear Resistant LFG</th>
<th>Pin Retention System</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>WT0705-W50LFG-SP</td>
<td>Slit pin (plug-integrated pin)</td>
</tr>
<tr>
<td>100</td>
<td>WT0705-W100LFG-SP</td>
<td></td>
</tr>
<tr>
<td>150</td>
<td>WT0705-W150LFG</td>
<td></td>
</tr>
<tr>
<td>200</td>
<td>WT0705-W200LFG</td>
<td></td>
</tr>
<tr>
<td>250</td>
<td>WT0705-W250LFG</td>
<td></td>
</tr>
<tr>
<td>300</td>
<td>WT0705-W300LFG</td>
<td></td>
</tr>
<tr>
<td>350</td>
<td>WT0705-W350LFG</td>
<td></td>
</tr>
<tr>
<td>400</td>
<td>WT0705-W400LFG</td>
<td></td>
</tr>
<tr>
<td>450</td>
<td>WT0705-W450LFG</td>
<td></td>
</tr>
<tr>
<td>500</td>
<td>WT0705-W500LFG</td>
<td></td>
</tr>
</tbody>
</table>

Note: 1. Standard chain widths come in 50 mm increments. Custom chain widths and widths greater than 500 mm are available upon request. Contact a Tsubaki representative for further information.
2. X represents a nominal chain width. Chain width is subject to expansion or contraction with changes in temperature. The expansion/contraction rate is 0.00015°C based on a reference temperature of 20°C.
3. Maximum chain width is 1,500 mm.

Model Numbering

<table>
<thead>
<tr>
<th>Chain type</th>
<th>Chain pitch</th>
<th>Link shape</th>
<th>Chain width</th>
<th>Chain material</th>
<th>Pin retention system</th>
</tr>
</thead>
<tbody>
<tr>
<td>WT</td>
<td>07</td>
<td>05</td>
<td>W100</td>
<td>LFG</td>
<td>SP</td>
</tr>
</tbody>
</table>

Note: No space is required between letters and symbols.
### Sprockets

#### Solid Sprockets (Molded) (Exclusively for WT0705-W chain)

<table>
<thead>
<tr>
<th>Tsubaki Model No.</th>
<th>Number of Teeth</th>
<th>Pitch Circle Diameter ( Dp )</th>
<th>Sprocket Outer Diameter ( Do )</th>
<th>Bore Shape</th>
<th>Bore Diameter ( d )</th>
<th>Keyway</th>
<th>Hub Diameter ( Dh )</th>
<th>Approx. Mass ( kg )</th>
<th>Type</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>WT-N0700-15T18</td>
<td>15</td>
<td>36.07</td>
<td>35.5</td>
<td>Round</td>
<td>( \phi 18 )</td>
<td>6</td>
<td>20.8</td>
<td>( \phi 28 )</td>
<td>0.010</td>
<td>Solid</td>
</tr>
<tr>
<td>WT-N0700-24T20</td>
<td>24</td>
<td>57.46</td>
<td>57.2</td>
<td>Round</td>
<td>( \phi 20 )</td>
<td>6</td>
<td>22.8</td>
<td>( \phi 49 )</td>
<td>0.032</td>
<td>Solid</td>
</tr>
<tr>
<td>WT-N0700-24T25</td>
<td>24</td>
<td>57.46</td>
<td>57.2</td>
<td>Round</td>
<td>( \phi 25 )</td>
<td>8</td>
<td>28.3</td>
<td></td>
<td>0.030</td>
<td>Solid</td>
</tr>
<tr>
<td>WT-N0700-24T30</td>
<td>30</td>
<td>83.32</td>
<td>83.6</td>
<td>Round</td>
<td>( \phi 30 )</td>
<td>8</td>
<td>33.3</td>
<td></td>
<td>0.029</td>
<td>Solid</td>
</tr>
<tr>
<td>WT-N0700-32T40S</td>
<td>32</td>
<td>76.52</td>
<td>76.4</td>
<td>Square</td>
<td>40</td>
<td>–</td>
<td></td>
<td>( \phi 66 )</td>
<td>0.045</td>
<td>Solid</td>
</tr>
</tbody>
</table>

Note:
1. Made-to-order products.
2. Operating temperature range: -20°C to 80°C
3. These 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.
4. Sprockets having numbers of teeth other than those above can also be manufactured (machined products).

### Nose Bars

#### Nose Bars (Exclusively for WT0705-W chain)

<table>
<thead>
<tr>
<th>Tsubaki Model No.</th>
<th>Material</th>
<th>Material Grade</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>WT-N070-W50-10-301</td>
<td>UHMW-PE</td>
<td>10-301</td>
<td>Green</td>
</tr>
<tr>
<td>WT-N070-W50-CNO</td>
<td>Special polyamide</td>
<td>SJ-CNO</td>
<td>Purple</td>
</tr>
</tbody>
</table>

Note:
1. Made-to-order products.
2. Contact a Tsubaki representative for mounting dimensions.
3. After June 2015, the color of material grade SJ-CNO (special polyamide) nose bars was changed from gray to purple.
Return Rollers

50 mm wide return rollers are available to match the chain’s millimeter-width increments.

Return Rollers

<table>
<thead>
<tr>
<th>Tsubaki Model No.</th>
<th>Diameter</th>
<th>Width</th>
<th>Material</th>
<th>Corresponding Disc Plate</th>
</tr>
</thead>
<tbody>
<tr>
<td>TP-RR30850</td>
<td>φ32</td>
<td>φ8.5</td>
<td>Polyamide (black)</td>
<td>TP-DP308</td>
</tr>
<tr>
<td>TP-RR41050</td>
<td>φ40</td>
<td>φ10.5</td>
<td></td>
<td>TP-DP410</td>
</tr>
</tbody>
</table>

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

Disc Plates

Disc Plates

<table>
<thead>
<tr>
<th>Tsubaki Model No.</th>
<th>Diameter</th>
<th>Material</th>
<th>Corresponding Return Roller</th>
</tr>
</thead>
<tbody>
<tr>
<td>TP-DP308</td>
<td>φ45</td>
<td>Polyamide (black)</td>
<td>TP-RR30850</td>
</tr>
<tr>
<td>TP-DP410</td>
<td>φ55</td>
<td></td>
<td>TP-RR41050</td>
</tr>
</tbody>
</table>

Note: 1. Standard items.
2. Operating temperature range: -20°C to 80°C
### Plastic Chain Inquiry Sheet

1. **Equipment**

2. **Conveyed Object**
   - 1. Conveyed Object
   - 2. Material: Steel / Aluminum / Paper / Glass / Plastic
   - 3. Mass: kg/pg
   - 4. Dimensions: (square object) mm x mm x height mm, (round object) mm diameter x height mm
   - 5. Shape of Bottom: Flat / Raised / Other
   - 6. Static Electricity: Possibility of damage due to static electricity: Yes / No

3. **Conveyor Arrangement**
   - 1. Straight Running or Sideflexing: Straight running / Sideflexing (sideflex radius: , sideflex angle: )
   - 2. Conveyor Length: m
   - 3. Layout: Sketch the layout in the space below.

4. **Conveying Conditions**
   - 1. Conveying Speed: m / min
   - 2. Interval/Spacing between Conveyed Objects, Conveyance Amount: (interval) mm, (amount) pc/m
   - 3. Operating Time: hours/day, hours/year
   - 4. Lubrication: None / Yes (soapy water / water/ other )
   - 5. Accumulation: No / Yes
   - 6. Wearstrip Material: Steel / Stainless steel / PMW plastic rail / M plastic rail / P plastic rail
   - 7. Support on Return Way: Rollers / Rail
   - 8. 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: ) (concentration %, usage frequency times ) Water, humidity ( %)
   - 3. Abrasive Conditions: None / Yes (glass fragments / paint chips / metal powder / sand / other )
   - 4. Other: Volatile gases: None / Yes ( )

6. **Chain Number**
7. **Sprocket Number**
   (no. of teeth )

8. **Brief description of equipment and chain:** Conveyor layout, shape of conveyed objects, method of support on the return way, and other remarks

---

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**Division:**

**Name:**

**Tel.:**

**Date:**

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