HI-TECH ATTACHMENT CHAIN
### INTRODUCING PLUS\(\alpha\) ALPHA

**HIGH-TECH ATTACHMENT CHAIN**

Plus\(\alpha\) Alpha Chains are top quality custom Tsubaki chains, order made for any special conveying application or requirement. These Tsubaki designed chains combine with attachments, or special chain parts to take on a wide range of conveying assignments.

For an easy and economical solution to design or installation problems, Tsubaki offers a sensible and highly functional line-up of various types of conveyor and roller base chain for perfect compatibility with the attachments or special chain parts you require.

**Benefits like—**
- Custom Engineering Chain features at a reasonable cost
- High strength
- Proven reliability
- Easy selection
- Quick delivery
- Outstanding performance

—make Tsubaki’s new Plus\(\alpha\) Alpha a choice that deserves attention.

Attachment chains other than the listed Plus\(\alpha\) Alpha line-up are also available or can be promptly manufactured according to your requirements.

Let us know what your requirements are. Tsubaki is at your service.

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<td>12-3 Oilless attachment</td>
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<td>12-5 FX chain</td>
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<td>TD/RF</td>
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<td>12-7 D-S attachment</td>
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<td></td>
<td>12-11 Dog attachment chain</td>
<td>KD</td>
<td>44</td>
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</table>

SUS—Stainless steel
1. Chain for Easy Slat Attachment

1.1 Press Nut Attachment (Chain type: NM)
- This chain has an attachment with nut.
- Both are heat treated to ensure sufficient strength.

A-1 with press nut attachment

K-1 with press nut attachment

1.2 Extended Pin with Screw (Chain type: EN)
- Extended pin (hardened alloy steel) has a screw for tool attachment.
- Only P* is provided for installing an attachment such as a tool attachment for two pins. Please inform us of the precise length of P*.

A-1 with press nut attachment

A-2 with press nut attachment

K-1 with press nut attachment

K-2 with press nut attachment

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Note: Please specify your required dimensions for L1 and L1, and L2 when ordering.
1.3 Extended Pin with Clip (Chain type: EC)

It is possible to install an attachment such as a tool attachment with a clip. Only P is possible for installing an attachment for two pins. Please inform us of the precise length of P.

2. Convey Material Directly on Chain

2.1 Double Pitch with Deep Link (Chain type: RFD)

This chain is based on the same dimensions as standard RF double pitch chain, but with its higher than the top of the roller.

2.2 RF Type Roller Chain (Chain type: RF)

This chain has standard (small) rollers with flat shape link plates. Chain should be used with even number of pitches.
2.3 Ground Attachment (Chain type: PG)

The upper surface of the link plate has been ground to provide a smooth conveying surface and to protect the conveyed material from damage.

For chain with attachment, the upper surface of the attachment and the outer surface of the roller are ground.

### Table: Dimensions (mm)

<table>
<thead>
<tr>
<th>TSUBAKI</th>
<th>Chain No.</th>
<th>P</th>
<th>Upper Link Plate</th>
<th>Lower Link Plate</th>
<th>Pin</th>
<th>Link Plate</th>
<th>C</th>
<th>Type</th>
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<tr>
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<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
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<td>10</td>
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<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>Type</td>
</tr>
</tbody>
</table>

Note: X, Y are the width of the attachment on the link and roller respectively. (For PG: X+Y = 10)
2.4 Attachment with Heat Fixed Rubber Pads (Chain type: PSG)
To prevent damage to the conveyed objects, rubber pads are heat fixed to the top plates.

2.6 Attachment with Bent End Top Plates (Chain type: SM)
Bent end top plates allows easy sideways transfer of the conveyed objects.

2.5 Attachment with Heat Treated Top Plates (Chain type: YP)
The carbon steel top plate is heat treated for improved resistance to damage.

2.7 Attachment with Inclined Top Plates (Chain type: CT)
The space between the top plate rails is small.

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**TSUBAKI**

**ZW**

**Dimensions**

TSUBAKI Chain No. ZW A B X

<table>
<thead>
<tr>
<th>TS 200</th>
<th>A</th>
<th>B</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>200</td>
<td>200</td>
<td>200</td>
</tr>
</tbody>
</table>

**Notes:**
- The top plate features a specific angle (W15°), which is standard according to the specification.
- Dimensions are provided in mm (mm) and inch (in) as needed.
3. Convey Material Between Chains

3.1 Attachment with Rubber (Chain type: RSG)
The attachment has an upper layer of rubber for smooth conveying and protection of breakable material from damage.

RS40-2

RS50-2

Note: Specifications of chain material will be decided upon your request.

3.2 Attachment with Internally Bent Attachment (Chain type: UM)
The top plates of the internally bent attachments are chamfered to protect the conveyed objects from damage.

4. Wide Chains

4.1 Stay Pin (Chain type: ST)
This chain is suitable for conveying on the pins. A net can be easily installed.

RS Type

<table>
<thead>
<tr>
<th>Chain No.</th>
<th>Pin P</th>
<th>Pin Center</th>
<th>Link Plates</th>
<th>Pin</th>
<th>Link Plates</th>
<th>Attachment</th>
<th>Notes</th>
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<tr>
<td>RS 80</td>
<td>12.78</td>
<td>13.27</td>
<td>24.5-10</td>
<td>1.82</td>
<td>2.44</td>
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<tr>
<td>RS 60</td>
<td>13.26</td>
<td>13.76</td>
<td>24.5-x</td>
<td>1.82</td>
<td>2.44</td>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>

Note: Specifications of chain material will be decided upon your request.

Upper dimension: mm, Lower dimension: inch
4.2 Roller Table (Chain type: RT)

Plastic rollers allow accumulation of the conveyed objects.

RT type has a wider plastic roller width than ST type, and it can be used for the transfer of wide objects such as pallets and cases.

Line pressure is notably reduced during accumulation because of the low friction coefficient of the plastic rollers (friction coefficient is between 0.06 and 0.10). This low friction coefficient protects the conveyed object from damage and enables smooth divergence and convergence of the conveyed objects.

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**TSUBAKI**

<table>
<thead>
<tr>
<th>Type</th>
<th>Code No.</th>
<th>Material</th>
<th>Plastic Roller</th>
<th>Line Type</th>
<th>Friction Coefficient</th>
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<tr>
<td>ST</td>
<td>02820</td>
<td>Steel</td>
<td>Steel Roller</td>
<td>ST</td>
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<tr>
<td></td>
<td>02821</td>
<td>Steel</td>
<td>Steel Roller</td>
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<td>0.15</td>
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<td></td>
<td>02822</td>
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<td>Steel Roller</td>
<td>ST</td>
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<td>02823</td>
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<td>Steel Roller</td>
<td>ST</td>
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<td>02824</td>
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<td>Steel Roller</td>
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<td>Steel</td>
<td>Steel Roller</td>
<td>ST</td>
<td>0.15</td>
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</tbody>
</table>

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Note: (1) The table above shows the length and width of the roller table.
(2) Please refer to the "TSUBAKI ELECTRONICS" catalog (July 2017) for more details on selection.
1. Convey Material with Storing

5.1 Double Strands of Top Roller (Chain type: TR)
Supporting material with top roller. Also suitable as a continuous movement chain for conveying and storing with the ability to move.

5.2 Plastic Top Roller (Chain type: PT)
Top roller is made of plastic for smooth, quiet and non-damage conveying.
5.3 Top Roller and Attachment to Prevent Falling (Chain type: TG)

This chain has a guide attachment to prevent falling or meandering of the chains.

**Top Roller: PL**

**Top Roller: RL**

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5.4 Plastic Outboard Roller and Attachment to Prevent Snaking (Chain type: SG)

Plastic outboard roller chain is used in the same way as top roller chain,

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5.5 Plastic Outboard Roller and Plastic Oversize “R” Roller (Chain type: SP)

Roller is solid plastic. This chain provides light, quiet, and stable conveying with an easy return.

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Note: Please specify your required opening for plastic rollers and attachment, when ordering.

(For overseas outboard roller installation, the plastic roller distance rollers are selected to suit every stability.

The configuration is standard.)
6. Chains for Curved Convener

6.1 Guide Roller (Chain type: GR)
Guide roller prevents meandering and can be used as a running roller.

6.2 Hollow-Pin and Guide Roller (Chain type: HP-GR)
Falling is prevented by using guide rollers and the hollow pins allow connection of many types of attachments. (This is not a curved chain)

6.3 TNU Anti-Lifting Chain (Chain type: UA)
Chain lifting at the point of curvature can be reduced through the use of anti-lifting attachments.
6.4 Curved Chains with Attachment and Guide Plate (Chain type: GP)

6.5 Curved Chains with Attachment and Guide (Chain type: GR)

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**Note:** The accessory, except for roller, are the same as both standard roller type (GP) and standard roller type (GR).
7. Support Rolling Material

7.1 Attachment with Bushing (Chain type: AB)
The press fitted bushing in this special attachment is ideal for bearings.

RS100

8. Chain with Slats

8.1 RF Double Pitch Chains with Crescent Plate (Chain type: CL)
This chain is used to convey many types of containers or materials for the bottling and canning industries.

8.2 RF Double Pitch Chains with Slat-Riveted Type (Chain type: SLT)
Slat are installed on rough RF double pitch chains, excellent for conveying relatively heavy items.

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<table>
<thead>
<tr>
<th>TSUBAKI Chain No.</th>
<th>P</th>
<th>Pitch</th>
<th>Roller Diameter</th>
<th>Pression</th>
<th>Long Plate</th>
<th>Top Plate</th>
<th>Approx. Pitch Length (mm)</th>
<th>Approx. Pitch Length (in)</th>
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<td>RF 2500A</td>
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<td>RF 2500C</td>
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</tbody>
</table>
8.3 RF Double Pitch Chains with Slats- Welded Type (Chain type: SLW)
Slats are installed on RF double pitch chains. Excellent for conveying relatively heavy items.

8.4 RS Roller Chains with Slats (Chain type: SLT)
This single pitch chain with a short internally set slat is suitable for smooth conveying of small items.

9. Special Atmosphere

9.1 Hollow-Pin Chains Made of 18-8 Stainless Steel Chain (Chain type: SS)
This versatile hollow pin chain is ideal for applications where chain is exposed to corrosive conditions.

RF Standard “S” Roller Type, Bushed Type
RF Oversize “R” Roller Type
9.2 Stainless Steel Chains Made of ANSI 316 (Chain type: NS)
ANSI 316 stainless steel series chain is excellent for corrosive atmospheres. Anti-magnetism and wear resistance properties are excellent.

9.3 Dual Strand Stainless Steel Roller Chain (Chain type: SS)
All parts are made of 308 series stainless steel. This anti-corrosive chain is used under special conditions such as in water, acid, alkali, high temperatures above 400°C (750°F), or low temperatures below -30°C (-22°F).

9.4 Titanium Chain (Chain type: Ti)
With excellent anti-corrosive and high-resistant properties, and lightweight, this chain is superior to stainless steel chain.

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### Table 9.2

<table>
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<tr>
<th>Tsubaki Chain No.</th>
<th># P</th>
<th>Width Dimension</th>
<th>Roler Outside Dia.</th>
<th>Pin</th>
<th>Link Plate</th>
<th>Min.</th>
<th>Max.</th>
<th>Approx. Weight</th>
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<td>7</td>
<td>10.0</td>
<td>6.0</td>
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<tr>
<td>RF 31.0X6.0</td>
<td>8</td>
<td>10.0</td>
<td>6.0</td>
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### Table 9.3

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<tr>
<td>RF 31.0X6.0</td>
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### Table 9.4

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Note: Reference to RSX 310:
1. All dimensions are shown in millimeters.
2. All dimensions are shown in inches.
3. All dimensions are shown in centimeters.
4. All dimensions are shown in feet.
5. All dimensions are shown in yards.
6. All dimensions are shown in metric units.
7. All dimensions are shown in imperial units.
8. All dimensions are shown in international units.
9. All dimensions are shown in agricultural units.
10. All dimensions are shown in industrial units.
11. All dimensions are shown in commercial units.
12. All dimensions are shown in legal units.
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9.5 Low Temperature Specification (Chain type: KT)
This chain can be used in the temperature range \(-40^\circ C \rightarrow +60^\circ C (\rightarrow 40^\circ F \rightarrow +140^\circ F)\)

10. Conveys Long and Narrow Items
10.1 Sticker Attachment (Chain type: FS)
This chain with the pin top attachment is ideal for conveying long and narrow items such as film.

**Type I**

**Type II**

10.2 Clip Attachment (Chain type: KU)

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### Table: Chain Specifications

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<tr>
<td>KS 34</td>
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<td>KS 48</td>
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</table>

Notes:
1. *K* indicates metric width.
2. The connecting links of KS18 to KS48 are clip type and the pins are marked with double sides.
11. Conveys Receptacles

11.1 Extended Pin (Chain type: ON)
This chain with special extended pins is used in the drying of
two-piece construction cans or tubes, which are pre-painted or
finish painted.

Forming → Pre-painting → Print-painting → Dryer

11.2 Can Feeder Chains (Chain type: KF)

Chain No. RS60-2 AS

Chain No. RS80AS

Chain No. RS100AS
12. Conveys Rod Shaped Items (Chain type : RE)

This chain has been widely used to convey resistors for household electric products or business machines, along painting lines.

13. Other Applications

13.1 BS Chain with Attachment (Chain type: BS)

For various other applications or for special requirements, Tsubaki BS type chains with attachments are available.

<table>
<thead>
<tr>
<th>TSUBAKI Chain No.</th>
<th>BS Type Number</th>
<th>Pin F</th>
<th>Roller Diameter</th>
<th>W - Chain Plate No.</th>
<th>Pin</th>
<th>D</th>
<th>L1</th>
<th>L2</th>
<th>Other Pin</th>
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</thead>
<tbody>
<tr>
<td>RS 14B</td>
<td>14B</td>
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<td>RS 110</td>
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<td>RS 110</td>
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</table>

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<tr>
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<th>B</th>
<th>H</th>
<th>L</th>
<th>T</th>
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<td>RS 110</td>
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<td>RS 110</td>
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<td>RS 12B</td>
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</table>

13.2 Attaching Ring (Chain type: BR)

13.3 Attaching Pin and Ring (Chain type: AP)

13.4 Attaching Pin and Chain Plate (Chain type: AC)

A-1 Attachment

SA-1 Attachment

D-1 Attachment

K-1 Attachment

SK-1 Attachment

D-3 Attachment

Notes:
1. Special attachments can be designed and manufactured if required.
2. Designing by the customer is allowed provided to 1039 - 1040.
3. Dimensions (mm) and (inch) given.
### 13.2 Hollow-Pin Chain with Attachment (Chain type: HP)

**WA-0, WA-1, WA-2 Attachment**

**WSA-0, WSA-1, WSA-2 Attachment**

**WK-0, WK-1, WK-2 Attachment**

**WSK-0, WSK-1, WSK-2 Attachment**

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<tbody>
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<td>RS 192</td>
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</tbody>
</table>

**Diagram:**

- A-1 Attachment
- K-1 Attachment
- SA-1 Attachment
- SK-1 Attachment

---

**Table:**

<table>
<thead>
<tr>
<th>Tsubaki</th>
<th>Attachment</th>
<th>Pin</th>
<th>Link Plate</th>
<th>Standard (Minimum)</th>
<th>Nominal (Average)</th>
<th>Distance (Minimum)</th>
<th>Approx. Weight</th>
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</table>
13.3 Lube-Free Chain with Attachment (Chain type: SL)
This chain has centered metal bushings impregnated with high-quality lubricant.

A-1 Attachment
A-2 Attachment
K-1 Attachment
K-2 Attachment
SA-1 Attachment
SA-2 Attachment
SK-1 Attachment
SK-2 Attachment
13.4 Large Pitch Chain (more than RS180) with Attachment (Chain type: RS)

- **K-1 Attachment**
- **WK-1 Attachment**
- **WSK-2 Attachment**

RS180, RS200, RS240, RF200T, RF400T are available.
RF400T is available.
RS200, RS240, RF400T are available.

**SK-1 Attachment (RS240)**

RS200, RS240 are available.
Cutout type connecting links will be provided for RS240.

RS240 is available.

13.5 FX Chain (Chain type: FX)
Tsubaki FX chains feature excellent durability and flexibility for tough applications, such as in concrete mixers, earth moving equipment and mining machines.

1. FX Chains are interchangeable with ANSI Standard Chains and can operate on ANSI Standard sprockets.
2. Increased clearance between pins and bushings allows the chain to accommodate a 100mm (3.94 inches) bend side bow and an 8 degree twist per 120 cm (4 ft.) of chain.

<table>
<thead>
<tr>
<th>Tsubaki</th>
<th>Pitch</th>
<th>Roller</th>
<th>Width</th>
<th>D</th>
<th>h</th>
<th>t</th>
<th>M</th>
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Installation links for each attachment are shown below.
13.7 D-S Attachment (Chain type: DS)

13.8 Magnetic Attachment (Chain type: MG)
This chain with a magnetic attachment can be used to convey items on a slope.

13.9 No Bend Type (Chain type: NB)
This chain only bends in one direction.

The RS80 pin link plates are shown in the diagram on the left.

13.10 Push Pull Chain (Chain type: PB)
This chain can drive loads by pushing and pulling like a linear actuator.

A-A cross-section
13.11 Dog Attachment chain (Chain type: KD)

Special Attachments

Special attachments will be designed and manufactured as requested. The photographs below show examples of special attachments, numbered for your reference.

- Packaging
- Special roller chain for coupling
- Can processing
- Roller conveyor
- Poultry processing
- Slit conveyor for electronic industry
- Steel wire production
- Conveying electronic parts
- Slit conveyors in the food industry
- Sanitary products processing
- Conveying capacitors
- Bar conveyor
- Book binding
- Conveying capacitors
- Water sewage systems

Note: Applications other than the above are also possible.
Special Attachments

Flow conveyor
Wood processing
Handling
Conveying bottles
Conveying small parts, such as miniature motors
Packaging
Plywood machinery
Conveying cartons
Lithographic oven conveyor
Plywood machinery
Poultry processing
Lithographic oven system
Packaging equipment
Poultry processing

Note: Applications other than the above are also possible.

Special Attachments

Cane harvester
Confectionery machinery
Corn harvester machinery
Laser oven
Smokehouse products processing
Conveying bottles
Conveying bottles
Vertical mail bag conveyor
Can processing
Paper packaging
Dairy products processing
Copy machinery
Glass forming

Note: Applications other than the above are also possible.
TSUBAKIKOMOTO CHAIN CO.

Headquarters
Teiiti 21 Mid Tower 36F
1-61, Shutojo-cho
Chuo-ku, Osaka 540-0130, Japan
Phone: 06-4700-0105
Facsimile: 06-4700-0149
Internet: http://www.tsubakimoto.com

Affiliated Companies:
U.S. Tsubakimoto, Inc.
301 E. Mamaroneck Dr.
Westfield, NJ 07090
U.S.A.
Phone: 973-459-9500
Facsimile: 973-459-9913

TSUBAKIKOMOTO of Canada Limited
1220 Drew Rd.
Mississauga, Ontario, L5G 1J6
Canada
Phone: 905-676-0400
Facsimile: 905-676-0964

TSUBAKIKOMOTO of Australia Pty. Ltd.
Unit E, 85 'Silvertree' Food
Silvertree N.S.W. 2141
Australia
Phone: 02-9645-5269
Facsimile: 02-9645-3115

Chain Division
Global Business Department
1-3, Kanebachi 1-chome
Kyobate, Kyoto 600-0390, Japan
Phone: 075-46-0025/014/0
Facsimile: 075-46-5211
For further information please contact the Chain Division.

Tsubakimoto Singapore Pte. Ltd.
25 Gu Lane
Jurong
Singapore 629419
Phone: 65104223/4
Facsimile: 6517025

Tawain Tsubakimoto Co.
No. 7 Feng Shih Street
Kaohsiung, Taiwan, R.O.C.
Phone: 09-32942075/60
Facsimile: 09-329085

Tsubakimoto Europe B.V.
Dolder 1, 4764 HK Roosendaal
The Netherlands
Phone: 0116-524800
Facsimile: 0116-549450

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