

TSUBAKI

Integrated Attachment Chain Special Small Size Attachment Chain



Introducing Tsubaki Integrated Attachment Chain

A Tsubaki integrated attachment chain is the



I want to reduce the time and trouble of mounting attachments!

Push It

Solution

Integrate attachments that are absolutely necessary for your production line with the chain. This nicely solves problems with cost, trouble, and waste.



The attachments and chain are integrated, so there is no trouble or costs related to attachment mounting.

Need

I want to smoothly replace my special foreign-made chain!

Grip It

Solution

Introduce an integrated Gripper chain. Spring film grippers in customized strengths and shapes available.



Tsubaki can handle quick changes to specifications for genuine parts that take time to procure. We also offer complete after-sales service after you receive your chain.

Need

My chain isn't durable enough. I want a longer life chain!

Push It



Solution

Use a Tsubaki integrated attachment chain for longer chain life.



You can reduce your number of chain replacements by using a Tsubaki integrated attachment chain. This will also greatly decrease the trouble and costs related to replacement.

perfect solution to all your conveying needs



Unique Tsubaki know-how allows us to bring you integrated Tsubaki integrated attachment chain.

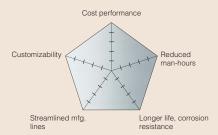
Read on for more examples of successful applications.

We eliminated the cost and trouble for the customer to make the attachments themselves. We also keep the die for them so that we can handle any additional attachment orders and replacements quickly.

Successful Applications

Tsubaki meets the needs of customers in every industry and field!

Understand the benefits of using integrated attachment chain at a glance!



We have established five categories of benefits for our customers graded in five steps. One quick glance at the radar chart and customers can see what will resolve their particular problem and what benefits their choice will bring. Use the chart when considering the right integrated attachment chain for you.

Cost Performance

We can propose a chain that will lower overall costs – initial costs, costs associated with developing and manufacturing an attachment chain, costs when replacing your chain or ordering additional chains, etc.

Reduced Man-hours

We can propose a chain that will reduce worker costs and effort – time spent mounting jigs to attachments, chain replacement work, downtime for maintenance, etc.

Longer Life, Corrosion Resistance

We can propose a chain that matches your production process and environment – longer life with Tsubaki Lambda® Chain, corrosion resistance for use in special environments, etc.

Streamlined Manufacturing Lines

We can propose an integrated attachment chain that streamlines work conveyance on your manufacturing lines – more stable conveyance, optimized attachment shape, more compact equipment.

Customizability

We can provide customized solutions (from development to production) with original attachment chains to replace your existing chain. Let Tsubaki propose a customized solution that meets your needs

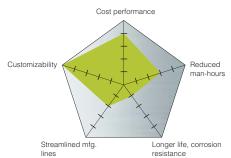
Steelmaking

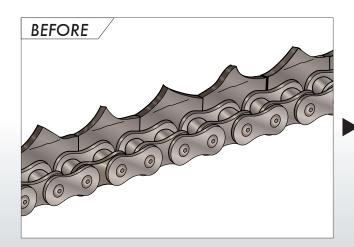
Reduce parts and use a smarter chain.

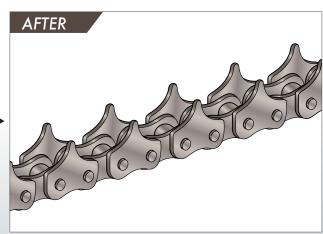
We proposed a chain with an integrated attachment to replace their specifications calling for a chain with jigs attached by bolts. This allowed the user to switch from unstable single-sided conveyance to stable dual sided conveyance.

Customer feedback

The chain we were purchasing on a regular basis was expensive, so integrated attachment chain allowed us to reduce costs.







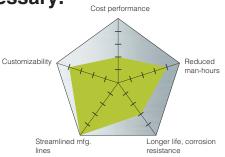
Stationery

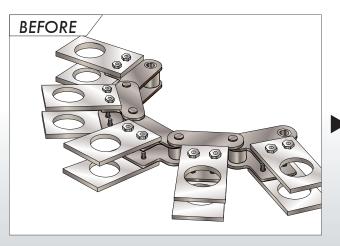
Using integrated attachment chain made plate processing and mounting unnecessary.

Integrating the chain and jigs reduced the time needed for plate processing, mounting, and design. Further, integrated attachment chain allowed them to source from one supplier, make their equipment more compact, and increase their positioning precision.

Customer feedback

We were able to eliminate the mounting work and outsourced processing work, which helped us make our equipment more compact.







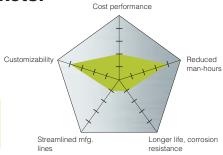
Confectionery

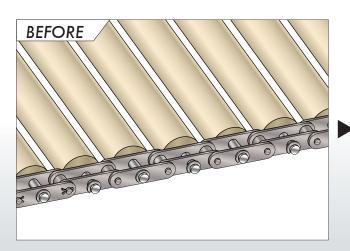
Uses alternating pitches so that the chain can be used with standard sprockets.

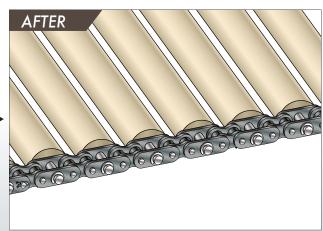
We were able to increase the customer's work efficiency by delivering them a chain with bars included. Normally they used a triple pitch design, but they needed to manufacture a custom sprocket. With the switch to alternating pitches they were able to use standard sprockets.

Customer feedback

Alternating pitches was a good idea. It helped us reduce costs because we could use standard items.







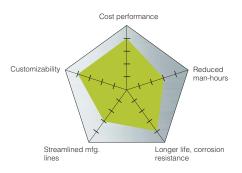
Conveyors

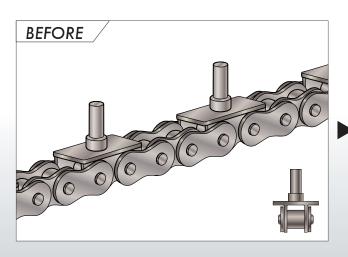
Major savings with integrated attachments.

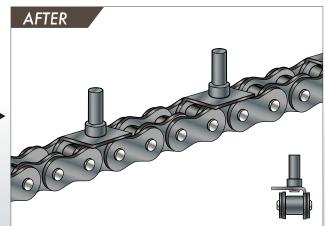
The existing attachment (machined) was expensive and deliveries were irregular. By using a UM attachment bent inward from Tsubaki, the customer was able to reduce costs and shorten delivery times. And by using Lambda Chain they were further able to reduce running costs.

Customer feedback

Not only did we reduce costs and shorten delivery times, but we were also able to extend the life of the equipment and increase productivity.







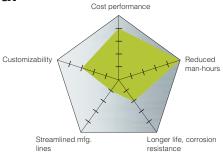
Food

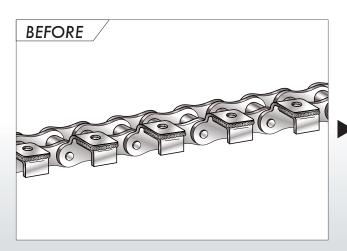
Integrating attachments reduces the risk of foreign matter getting into food.

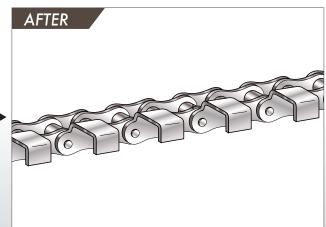
By integrating standard and special attachments with the chain, we reduced the risk of foreign matter from welding cracks getting into food. The chain could also be installed right after delivery, which meant shorter downtime for the customer.

Customer feedback

In the food industry, foreign matter in food could be lethal, so with Tsubaki chains we knew we were safe.







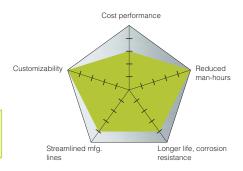


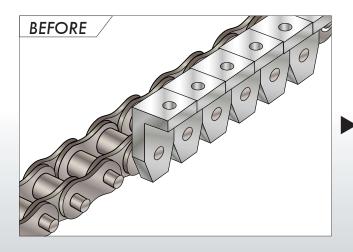
Integrated attachments reduce replacement time.

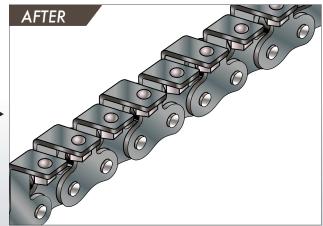
Integrated attachments greatly reduce the time needed to replace the chain. They also mean fewer parts, so customers can get everything from one source and reduce overall costs.

Customer feedback

We eliminated work that we always thought was necessary and increased our equipment operating rate.







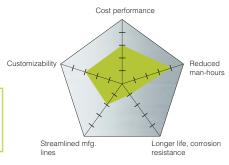
Heat Treatment Furnaces

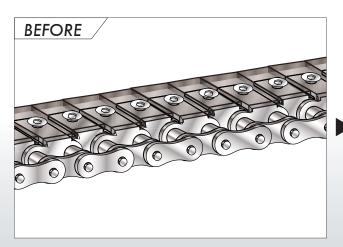
Lower costs through simplified jigs and attachments.

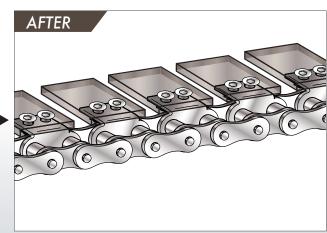
We reviewed the customer's jig and attachment shapes and proposed a standard chain with a simple jig shape. This reduced their costs and delivery times and contributed to higher quality and more stability.

Customer feedback

We looked into fancy specifications to match the items we were conveying, but Tsubaki had the idea to simplify the shape. This allowed us to shorten our jig manufacturing and attachment work.







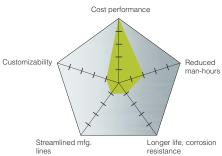
Papermaking

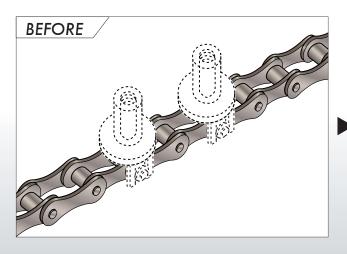
Tsubaki can provide chains and special jigs for foreign-made equipment.

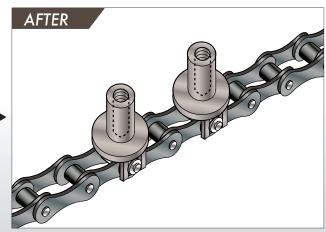
Tsubaki can manufacture an integrated attachment chain that includes both the base chain and special jigs that had to be ordered from a foreign equipment manufacturer.

Customer feedback

We were able to reduce delivery times and costs compared to sourcing from the foreign equipment manufacturer.







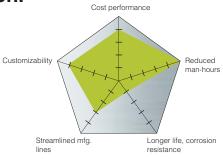
Inspection Equipment

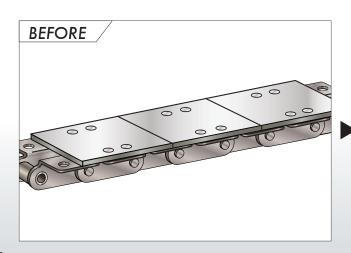
Reduce costs and man-hours by switching the chain's construction.

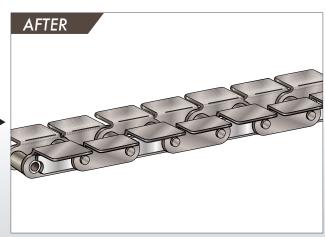
Tsubaki proposed switching from bolting slats to the attachments to a chain with the slats integrated. This saved the customer labor as well as money, as they no longer needed the expensive aluminum blocks that caused them trouble.

Customer feedback

By just inserting one plate, Tsubaki was able to achieve the original no backbend function.







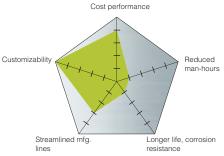


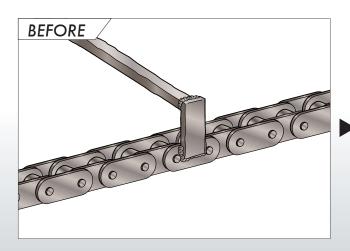
Reduce operating loss by changing how you receive your chain.

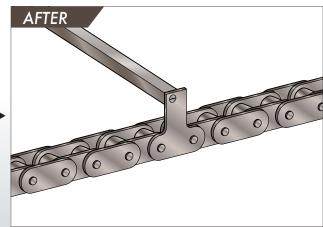
Tsubaki proposed switching from a foreign-made chain with the plates and bars welded on separately to an integrated chain specification. The chain ran smoothly after they received it, and it was cheaper than sourcing from an overseas supplier.

Customer feedback

We didn't know that Tsubaki could supply us with a custom chain with the same shape as our original chain.







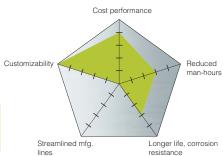
Beverages

Switching jig materials for a longer chain life.

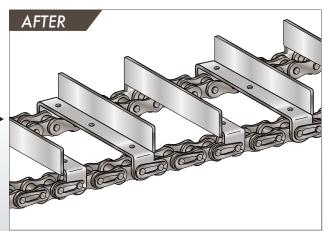
We proposed changing the material of the slats on the original chain in order to further extend their corrosion resistance and life. Tsubaki also changed the base material of the chain for longer life too. By switching to Tsubaki, the customer was able to decrease delivery times and costs.

Customer feedback

The Tsubaki chain solved all our problems with corrosion, product life, and delivery.







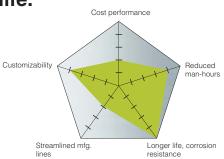
Steelmaking

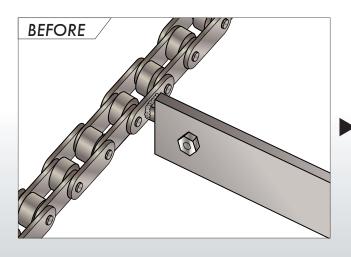
Eliminate on-site welding and slat attachment, and extend product life.

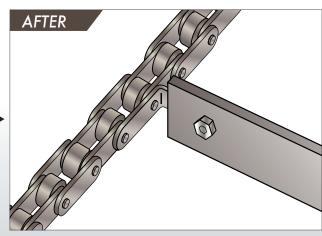
The customer feared link plate strength would drop from block welding, so we recommended a Tsubaki L-shaped attachment. Their problems with breakage disappeared, and they enjoyed longer chain life.

Customer feedback

We didn't realize that welding shortened a chain's life. We're happy with our Tsubaki chain.







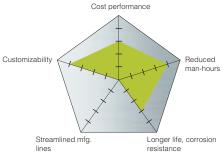
Automotive Parts

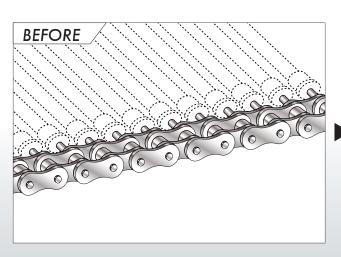
Reduce attachment labor time with a chain integrated with jigs.

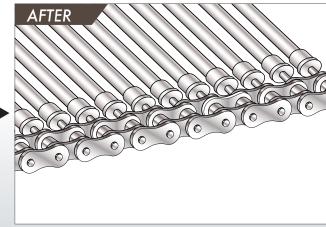
We proposed an integrated attachment chain with integrated jigs, which saved the customer the trouble of attaching the bars and greatly reduced their labor time while providing longer product life.

Customer feedback

We were able to install the chain in our equipment right after we got it, which also helped us cut down on equipment downtime.







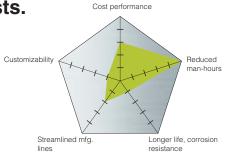
Food **Equipment** Switching from manufacturing and assembly to an integrated attachment chain

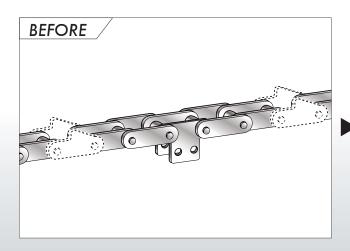
reduced labor and personnel costs.

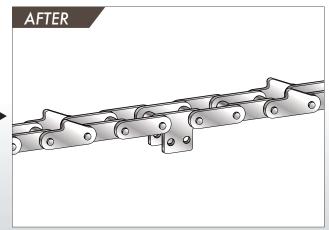
Tsubaki proposed an integrated attachment chain that included a specially shaped attachment, which reduced the chain manufacturing costs as well as the purchasing costs for connecting links. By eliminating unnecessary chain cutting, the chain helped increase the quality and stability of their equipment.

Customer feedback

We were able to reduce labor time and additional processing on-site. We could also install the chain on the equipment right after we got it.







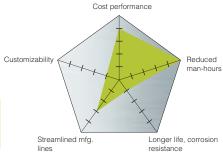
Housing Construction

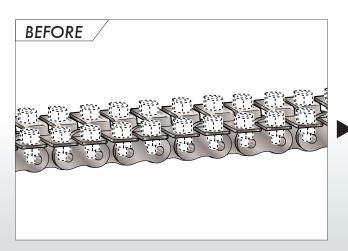
Eliminating bolts and nuts to save time and money.

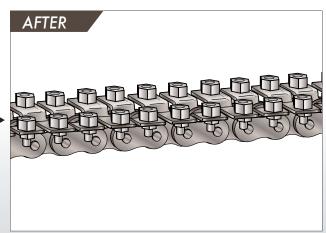
We eliminated the need for the customer to attach bolts and nuts one at a time to the attachment on-site, which reduced the time needed for chain processing as well as the attendant labor costs.

Customer feedback

We were able to greatly reduce the time needed for on-site attachment. We plan to use integrated attachment chains on other lines as well.







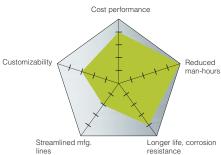


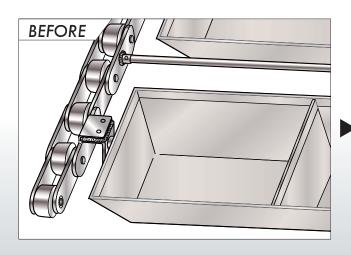
Lower overall costs thanks to special attachments.

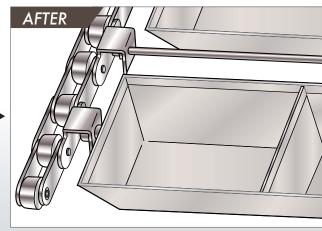
We proposed using a special attachment chain in place of a standard chain with buckets and bars welded on. This allowed the buckets and bars to be attached easily, with without welding needed. The new chain also contributed to longer chain life.

Customer feedback

I didn't need to weld anymore, so installing the chain was easy. It really helped me out to buy the bar and chain as a set.







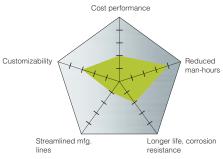
Noodle Making

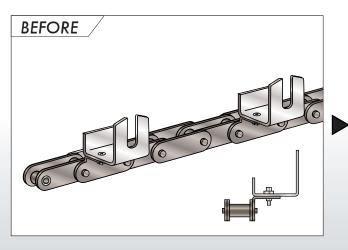
Integrated attachments mean fewer part orders and less assembly time.

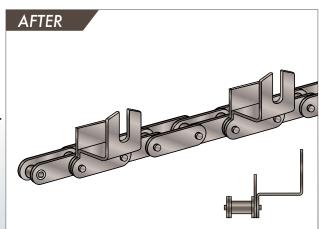
We proposed integrating the special parts that the customer outsourced manufacturing of with the chain. The result was fewer part orders and less assembly time, and once delivered the chain could be quickly installed in the machine.

Customer feedback

Not only did we reduce our special part orders and assembly, but we halved the time needed for managing stock items.







Packaging

Made-to-order blocks were replaced with special attachments.

In the past, the customer attached special made-to-order blocks to extended pins, and the slats were attached with bolts. The blocks were machined and required exacting precision, which meant high procurement costs. We proposed a special attachment that would function as a block and would be integrated with the chain.

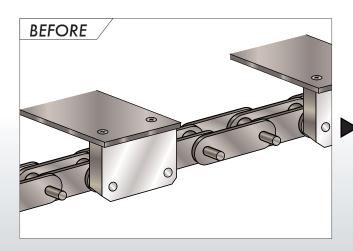
Customizability

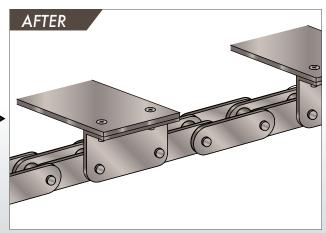
Reduced man-hours

Streamlined mfg.
Longer life, corrosion resistance

Customer feedback

Using the special attachment meant that we were able to keep procurement costs down for the entire conveyor.



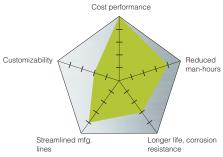


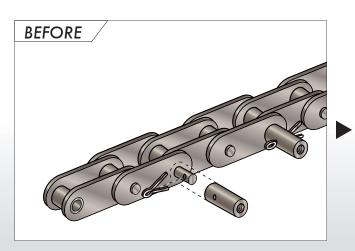
Automotive Parts Increased durability by proposing a special extended shoulder pin.

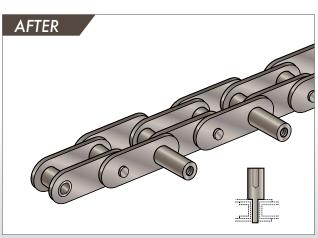
When the customer additionally machined the extended pins and mounted attachments to them, the pins would deform and break, reducing the life of the chain. They asked us to offer improvements, so we proposed a special extended shoulder pin.

Customer feedback

The chains were more durable, and we were satisfied with not having to do any additional machining to the chain.







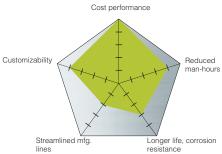


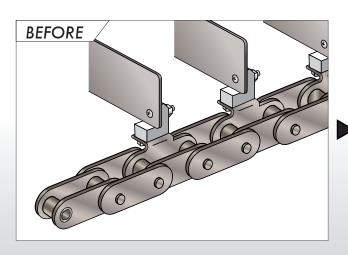
Reduced costs by including jigs on special attachments.

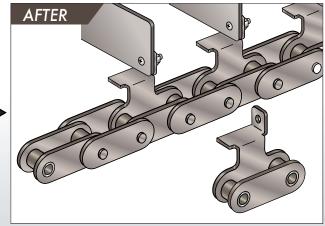
The customer machined jigs to mount scrapers, but there were a lot of jigs so the manufacturing and mounting costs were high. They asked us if there was a better way, so we proposed a special attachment that would include the jigs.

Customer feedback

I didn't know it was possible to make attachments in this shape. We were able to reduce costs by using integrated attachment chain.







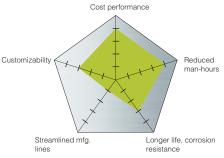
Packaging

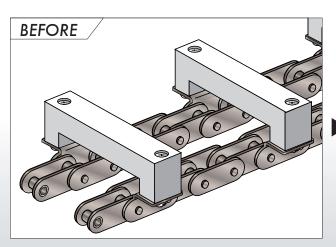
Simplified the plastic blocks using special attachments.

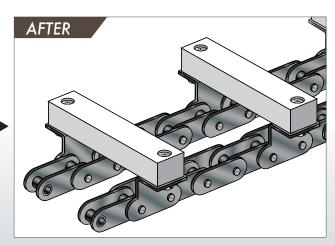
The customer mounted a gate-shaped plastic block onto a standard attachment chain, but manufacturing the plastic blocks took a lot of time and money. We simplified the shape of the plastic blocks using a special attachment to save the customer time and money.

Customer feedback

By changing our way of thinking, we saw how we could save money. We also reduced the time it took to get the plastic blocks.







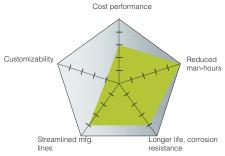
Metal Working

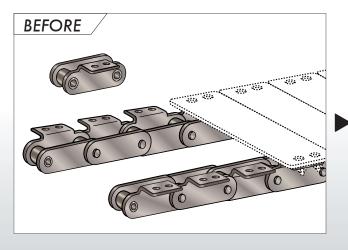
Reduced maintenance costs thanks to integrated thinking.

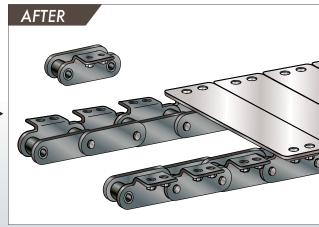
The customer mounted slats to the chain while adjusting the equipment, but work efficiency was low and it took a lot of time. We recommended using press nuts, which reduced the time it took to mount the slats and the time it took to procure the slats and other parts.

Customer feedback

We replace the slats regularly, so integrated attachment chains helped us reduce our work time.









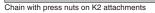
Examples of Special Attachments for Tsubaki Lambda® Chain

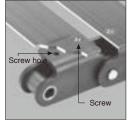
- 1. Tsubaki has a long history of providing not only standard attachments but integrated attachments to meet each customer's application, equipment, environment, or work shape needs.
- 2. Our wide line-up of integrated attachments is used by our customers as their de facto attachments.
- 3. Contact Tsubaki with information on your application, equipment, environment, and work shape. We can manufacture a Lambda Chain with integrated attachments just for you.

Chain with holes for press nuts and screws

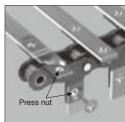
Press nuts are press fit into chain attachments, or screw holes are directly tapped into the plates. Slats and jigs can be directly attached with just screws and bolts for much better workability.







Chain with screw holes on A2 attachments bent inward



Chain with press nuts on K1 and SA attachments

Free Flow Chain

A Free Flow Chain that uses a Tsubaki Lambda Chain as the base chain. The base chain does not need to be lubricated, but the steel top rollers or outboard rollers do. (Plastic top rollers and outboard rollers do not need to be lubricated.)



Double Plus® Chain



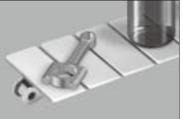
Top Roller Chain



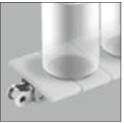
Outboard Roller Chain

Top Chain for direct conveyance

This chain is for directly conveying various machine parts or containers such as bottles, cans, and paper packs. The base chain is Lambda Chain.



TS Series Top Chain



TN Series Top Chain



RT Series Roller Table

Special attachment chain for direct conveyance

This Lambda Chain features specially shaped attachments that match the shape of round bars, pipes, small boxes, and other work.



Chain with triangular attachments for round bars



attachments for small boxes



Chain with V-shaped attachments for pipes

Chain with bracket-shaped attachments for direct conveyance

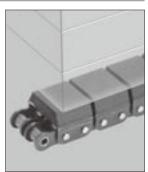
This chain is for directly conveying pallets, cardboard boxes, plastic boxes, and so on. Tsubaki can also provide stainless steel attachments, bracket-shaped attachments, rubber pad attachments, and others to meet your application needs.



attachments (stainless steel)



Double pitch chain with bracket shaped attachments



Double strand chain with rubber pad

Extended pin chain

Chain with extended pins, threaded extended pins, and extended pins with clips for mounting various attachments. (For attaching nuts, inserting pipes, or affixing with clips.)



Threaded extended pin chain



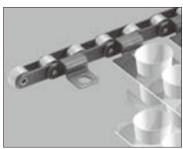
Extended pin chain



Extended pin chain with clips

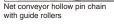
Chains for bar, slat, and net conveyors

This chain features holes in special attachments for mounting slats, shoulder bars, angular bars, round bars, and other uniquely shaped jigs.



Slat conveyor chain with holes (chain center and slats are at the same height)







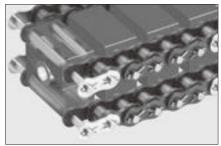
Square bar chain



Bar attachment bushed chain

Chains that convey by gripping work

These chains form two conveyors that grip an object between them using the stay pins of the chain, or a bent-over open-box-shaped attachment.



Stay pin chain (with blocks attached to the stay pins)



Chain with inwardly bent attachments

Integrated Attachment Chain

	Specifications	Explanation	Page No.
very	Special hole diameter attachment (A & K attachments)	Chain incorporating attachments with the most typical special hole diameters (equivalent to JIS-2 class bolt holes) from amongst our numerous attachments	18
Quick Delivery	Press nut attachment (A-NM & K-NM attachments)	Chain with nuts added on the attachments. Slats can attach easily.	19、20
Quic	Special extended pin (EPL)	Chain with special extended pins with common parts so that they can be manufactured for shorter delivery times	21、22
	Ground surface attachment (PG)	The rollers are ground, and the upper surfaces of the attachments are ground as well.	23
	RS® large size chain with attachment	RS180 or larger size RS chain with attachments.	24
	Double pitch deep link chain (DL attachment)	Height of the link plates (dimension H1) is higher than the top of the roller on a double pitch base chain. Direct conveyance is possible, even with R rollers.	25
	Inwardly bent attachment (UM attachment)	Items can be directly conveyed on or between the inwardly bent attachments. The upper face of the attachment has been chamfered to minimize scratching on conveyed items.	25
	Guide roller (GR attachment)	Guide rollers prevent meandering and can be used as running rollers. (This is not a curved chain.)	26
	Threaded extended pin (EN attachment)	The extended pin (tempered steel) is threaded for attaching jigs using nuts.	27
	Extended pin with clip (EC attachment)	Jigs can be attached with clips.	28
	Stay pin (ST attachment)	Pins are made longer to form parallel strands of chain. Ideal for conveying items on top of the pins, such as by attaching a mesh net.	29、30
	Triangle attachment (RE attachment)	This chain is ideal for conveying a variety of bar-like items.	31
Design Stock	Sticker attachment (FS attachment)	This chain, with its pointy triangular attachments, is perfect for gripping and conveying belt shaped items (film, etc.).	31
ign	Gripper attachment (KU, KUM)	Chain for gripping and conveying film, etc. with clips.	32
Des	Magnet attachment (MG)	Magnets attract cases carrying conveyed goods, allowing them to be conveyed at an incline.	33
	Rubber pad attachment (RSG)	A layer of rubber is bonded to the attachment. The elasticity of rubber allows objects to be conveyed between chains.	33
	Crescent top plate (CL attachment)	For horizontal circular conveyance.	34
	Slat (SLT [riveted] attachment)	Strong double pitch chain with slats attached. Perfect for conveying relatively heavy items.	34
	Slat (SLW [welded] attachment)	Double pitch chain with slats welded on. Perfect for conveying relatively heavy items.	35
	RS® slat (SLT [riveted] attachment)	Small pitch RS chain with a small distance between slats. Ideal for conveying small items. The small pitch also provides smooth operation.	35
	Pusher (SD attachment)	Perfect chain for directly pushing items to be conveyed.	36
	Top plate with bonded rubber pad (PSG attachment)	Rubber pads have been bonded onto the top plates to prevent scratching items.	37
	Tempered top plate (HTP attachment)	Steel top plates are hardened and tempered to minimize scratching.	37
	Bent end top plate (SM attachment)	Enables smooth lateral transfer of conveyed items.	38
	Inclined top plate (30°) (CTP attachment)	The space between the upper faces of the slats are small, preventing conveyed items from getting caught.	38

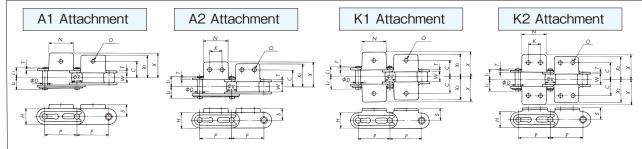
Quick Delivery Stocked parts for quick delivery.

Chain incorporating attachments with the most typical special hole diameters (equivalent to JIS-2 class bolt holes) from amongst our numerous attachments.



Special Hole Diameter Attachment (A & K attachments)

Standard chain ●Lambda chain (lube-free)



- · Connecting links: RF2040 to RF2060 use spring clips. RF2080 and larger use cotter pins. Base chain pins are riveted.
- Attachments shown are S roller types. However, the dimensions for attachments are the same when R rollers are used. Also, the drawings show attachments added on every link.
 Pins other than those on connecting links are riveted regardless of whether attachments are present.
 X and X₂ are the width of the attachments installed on the inner link.

Attachment Dimensions

Tsubaki (Chain No.		Inner Link	Rollei	r Dia.		Pin		Plo	ate				Attacl	nment		
Standard	Lambda	Pitch P	Inner Width W	S Roller	R Roller	Dia D	Lı	L2	Width H	Thickness <i>T</i>	С	К	Z	S	Χ	X 2	0
RF2040	RF2040-LMC	25.40	7.95	7.92	15.88	3.97	8.25	9.95	12.0	1.5	12.7	9.5	19.1	9.1	19.3	17.6	4.5 · 5.5
RF2050	RF2050-LMC	31.75	9.53	10.16	19.05	5.09	10.30	12.0	15.0	2.0	15.9	11.9	23.8	11.1	24.2	22.0	4.5 · 5.5
RF2060	RF2060-LMC	38.10	12.70	11.91	22.23	5.96	14.55	16.55	17.2	3.2	21.45	14.3	28.6	14.7	31.5	28.2	5.5 · 6.5
RF2080	RF2080-LMC	50.80	15.88	15.88	28.58	7.94	18.30	20.90	23.0	4.0	27.8	19.1	38.1	19.1	40.7	36.6	9.0
RF2100	RF2100-LMC	63.50	19.05	19.05	39.69	9.54	21.80	24.50	28.6	4.8	33.35	23.8	47.6	23.4	49.9	44.9	11.0

Chain Numbering

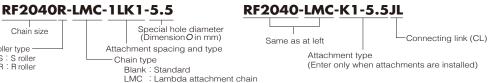
Special Hole Diameter (Double Pitch)

Chain size

Roller type

S: S roller R: R roller

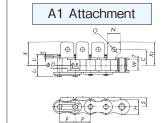
Connecting Link (CL)

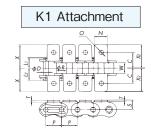




Special Hole Diameter Attachment (A & K attachments)

- Standard chain
- ●Lambda chain (lube-free)





- Connecting links: RS35 to RS60 use spring clips. RS80 and larger use cotter pins.
- Base chain pins are riveted.
- · X and X₂ are the width of the attachments installed on the inner link.
- The drawings show attachments added on every link.
- · Pins other than those on connecting links are riveted regardless of whether

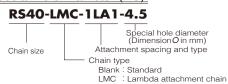
Attachment Dimensions

Tsubaki C	Chain No.	Dir. I	Inner Link	Roller		Pin		Plo	ate			A	ttachme	nt	
Standard	Lambda	Pitch P	Inner Width W	(Bush) Dia. R	Dia D	Lı	L2	Width H	Thickness <i>T</i>	С	N	S	X	X 2	0
RS35	RS35-LMC	9.525	4.78	(5.08)	3.59/3.00	5.85	6.85	9.0	1.25	9.5	7.9	6.35	14.3	14.3	2.6
RS40	RS40-LMC	12.70	7.95	7.92	3.97	8.25	9.95	12.0	1.5	12.7	9.5	8.0	17.8	17.8	4.5 · 5.5
RS50	RS50-LMC	15.875	9.53	10.16	5.09	10.3	12.0	15.0	2.0	15.9	12.7	10.3	23.4	23.4	4.5 · 5.5
RS60	RS60-LMC	19.05	12.70	11.91	5.96	12.85	14.75	18.1	2.4	19.05	15.9	11.9	28.2	28.2	5.5 · 6.5
RS80	RS80-LMC	25.40	15.88	15.88	7.94	16.25	19.25	24.1	3.2	25.4	19.1	15.9	36.6	36.6	9.0
RS100	RS100-LMC	31.75	19.05	19.05	9.54	19.75	22.85	30.1	4.0	31.75	25.4	19.8	44.9	44.9	11.0

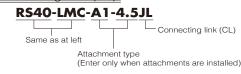
Note: RS35-LMC Lambda pin diameter is 3.00mm

Chain Numbering

Special Hole Diameter (RS)



Connecting Link (CL)



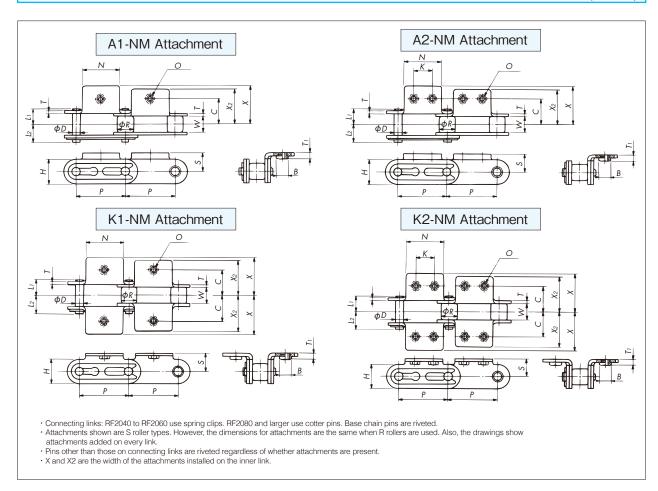
Quick Delivery Stocked parts for quick delivery.

Nuts are added on the attachment to enable slats to be installed simply and easily. Both the attachments and nuts are heat treated for ample strength.



Press Nut Attachment (Attachment types: A-NM & K-NM)

Standard chain ●Lambda chain (lube-free)



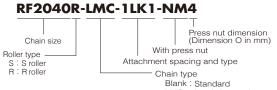
■Attachment Dimensions

Tsubaki C	Chain No.	Du I	Inner Link	Rolle	r Dia.		Pin		Plo	ate				A	ttachm	ent			
Standard	Lambda	Pitch P	Inner Width W	S Roller	R Roller	Dia D	Lı	L2	Width H	Thickness <i>T</i>	C	K	N	В	S	Χ	X 2	Tı	0
RF2040-NM3	RF2040-LMC-NM3	25.40	7.95	7.92	15.88	3.97	8.25	9.95	12.0	1.5	12.7	9.5	19.1	5.5	9.1	19.3	17.6	3.6	M3
RF2040-NM4	RF2040-LMC-NM4	25.40	7.95	7.92	15.88	3.97	8.25	9.95	12.0	1.5	12.7	9.5	19.1	7.0	9.1	19.3	17.6	3.8	M4
RF2050-NM4	RF2050-LMC-NM4	31.75	9.53	10.16	19.05	5.09	10.3	12.0	15.0	2.0	15.9	11.9	23.8	7.0	11.1	24.2	22.0	4.3	M4
RF2050-NM5	RF2050-LMC-NM5	31.75	9.53	10.16	19.05	5.09	10.3	12.0	15.0	2.0	15.9	11.9	23.8	8.0	11.1	24.2	22.0	5.1	M5
RF2060-NM5	RF2060-LMC-NM5	38.10	12.70	11.91	22.23	5.96	14.55	16.55	17.2	3.2	21.45	14.3	28.6	8.0	14.7	31.5	28.0	6.3	M5
RF2060-NM6	RF2060-LMC-NM6	38.10	12.70	11.91	22.23	5.96	14.55	16.55	17.2	3.2	21.45	14.3	28.6	10.0	14.7	31.5	28.0	7.3	M6

Dimension B is the width when nuts are installed on upper and lower surfaces.

Chain Numbering

Press Nut (Double Pitch)



Blank: Standard LMC: Lambda attachment chain

Connecting Link (CL)



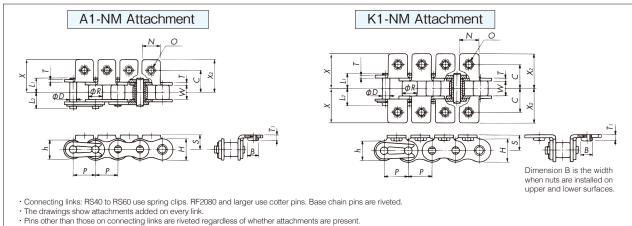






Press Nut Attachment (Attachment types: A-NM & K-NM)

Standard chain ●Lambda chain (lube-free)



- · X and X2 are the width of the attachments installed on the inner link.

Attachment Dimensions

Tsubaki (Chain No.		Inner Link	Roller		Pin			Plate					Attac	nment			
Standard	Lambda	Pitch P	Width W	Dia R	Dia D	Lı	L2	Width h	Width H	Thickness <i>T</i>	С	Z	В	S	Χ	X 2	T ₁	0
RS40-NM3	RS40-LMC-NM3	12.70	7.95	7.92	3.97	8.25	9.95	10.4	12.0	1.5	12.7	9.5	5.5	8.0	17.8	17.8	3.6	M3
RS40-NM4	RS40-LMC-NM4	12.70	7.95	7.92	3.97	8.25	9.95	10.4	12.0	1.5	12.7	9.5	7.0	8.0	17.8	17.8	3.8	M4
RS50-NM4	RS50-LMC-NM4	15.875	9.53	10.16	5.09	10.3	12.0	13.0	15.0	2.0	15.9	12.7	7.0	10.3	23.4	23.4	4.3	M4
RS50-NM5	RS50-LMC-NM5	15.875	9.53	10.16	5.09	10.3	12.0	13.0	15.0	2.0	15.9	12.7	8.0	10.3	23.4	23.4	5.1	M5
RS60-NM5	RS60-LMC-NM5	19.05	12.70	11.91	5.96	12.85	14.75	15.6	18.1	2.4	19.05	15.9	8.0	11.9	28.2	28.2	5.5	M5
RS60-NM6	RS60-LMC-NM6	19.05	12.70	11.91	5.96	12.85	14.75	15.6	18.1	2.4	19.05	15.9	10.0	11.9	28.2	28.2	6.5	M6

Dimension B is the width when nuts are installed on upper and lower surfaces.

Chain Numbering

Press Nut (RS)

RS40-LMC-2LK1-NM4 Press nut dimension (Dimension O in mm) Chain size With press nut Attachment spacing and type

Chain type
Blank: Standard
LMC: Lambda attachment chain

Connecting Link (CL)

RS40-LMC-K1-NM4JL Connecting link (CL) Same as at left Enter only when attachments are installed

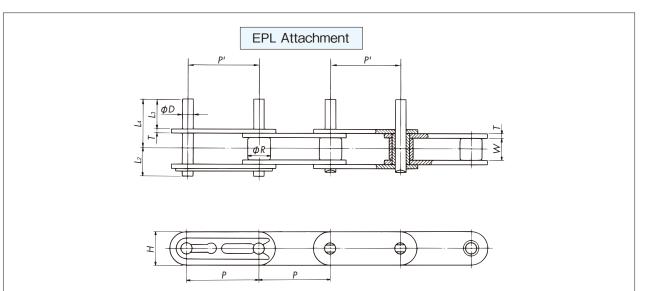
Quick Delivery Stocked parts for quick delivery

Chain with special extended pins with common parts so that they can be manufactured for shorter delivery times.



Special Extended Pin (Attachment Type: EPL)

Standard chain ●Lambda chain (lube-free)



- Actual dimension P' may differ from P. Contact a Tsubaki representative for details.
 Extended pins on standard Lambda Chain are nickel-plated. Consequently, pin end diameter will be slightly larger.
- Connecting links: RF2040 to RF2060 use spring clips. RF2080 and larger use cotter pins. Base chain pins are riveted.
 Attachments shown are S roller types. However, the dimensions for attachments are the same when R rollers are used. Also, the drawings show attachments added on every link.

 • Pins other than those on connecting links are riveted regardless of whether attachments are present

Attachment Dimensions

Tsubaki C	Chain No.	Pitch	Inner Link	Roller	Dia.R	Р	in	Ple	ate	Р	in
Standard	Lambda	P	Inner Width W	S Roller	R Roller	Dia D	L2	Width H	Thickness T	Lз	L ₄
RF2040-EPL15.4	RF2040-LMC-EPL15.4	25.40	7.95	7.92	15.88	3.97	9.95	12.0	1.5	15.4	22.65
RF2040-EPL20.3	RF2040-LMC-EPL20.3	25.40	7.95	7.92	15.88	3.97	9.95	12.0	1.5	20.3	27.55
RF2040-EPL29.8	RF2040-LMC-EPL29.8	25.40	7.95	7.92	15.88	3.97	9.95	12.0	1.5	29.8	37.05
RF2050-EPL19.3	RF2050-LMC-EPL19.3	31.75	9.53	10.16	19.05	5.09	12.0	15.0	2.0	19.3	28.4
RF2050-EPL23.8	RF2050-LMC-EPL23.8	31.75	9.53	10.16	19.05	5.09	12.0	15.0	2.0	23.8	32.9
RF2050-EPL31.2	RF2050-LMC-EPL31.2	31.75	9.53	10.16	19.05	5.09	12.0	15.0	2.0	31.2	40.3
RF2060-EPL16.5	RF2060-LMC-EPL16.5	38.10	12.70	11.91	22.23	5.96	16.55	17.2	3.2	16.5	29.65
RF2060-EPL20.8	RF2060-LMC-EPL20.8	38.10	12.70	11.91	22.23	5.96	16.55	17.2	3.2	20.8	33.95
RF2060-EPL28.2	RF2060-LMC-EPL28.2	38.10	12.70	11.91	22.23	5.96	16.55	17.2	3.2	28.2	41.35
RF2080-EPL27.1	RF2080-LMC-EPL27.1	50.80	15.88	15.88	28.58	7.94	20.90	23.0	4.0	27.1	43.5
RF2080-EPL35.4	RF2080-LMC-EPL35.4	50.80	15.88	15.88	28.58	7.94	20.90	23.0	4.0	35.4	51.8
RF2080-EPL56.5	RF2080-LMC-EPL56.5	50.80	15.88	15.88	28.58	7.94	20.90	23.0	4.0	56.5	72.9
RF2100-EPL34.0	RF2100-LMC-EPL34.0	63.50	19.05	19.05	39.69	9.54	24.50	28.6	4.8	34.0	53.6
RF2100-EPL43.7	RF2100-LMC-EPL43.7	63.50	19.05	19.05	39.69	9.54	24.50	28.6	4.8	43.7	63.3
RF2100-EPL69.9	RF2100-LMC-EPL69.9	63.50	19.05	19.05	39.69	9.54	24.50	28.6	4.8	69.9	89.5

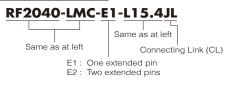
Chain Numbering

Special Extended Pin (Double Pitch)

RF2040S-LMC-2LEPL15.4 Chain size Extended pin projection (L3 in mm) With extended pins Roller type S : S roller R : R roller Extended pin spacing Chain type

Blank: Standard LMC: Lambda attachment chain

Connecting Link (CL)



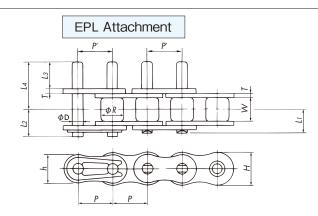






Special Extended Pin (Attachment Type: EPL)(RS)

Standard chain ●Lambda chain (lube-free)



- · Actual dimension P' may differ from P. Contact a Tsubaki representative for details.
- Extended pins on standard Lambda Chain are nickel-plated. Consequently, pin end diameter will be slightly larger.
 Connecting links: RS40 to RS60 use spring clips. RS80 and larger use cotter pins. Base chain pins are riveted.
- Attachments shown are S roller types. However, the dimensions for attachments are the same when R rollers are used. Also, the drawings show attachments added on every link.
 Pins other than those on connecting links are riveted regardless of whether attachments are present.

■Attachment Dimensions

Tsubaki C	Chain No.	Divel	Inner Link	Roller		Pin			Plate		Р	in
Standard	Lambda	Pitch P	Inner Width W	Dia <i>R</i>	Dia D	Lı	L2	Width h	Width H	Thickness <i>T</i>	Lз	L ₄
RS40-EPL15.4	RS40-LMC-EPL15.4	12.70	7.95	7.92	3.97	8.25	9.95	10.4	12.0	1.5	15.4	22.7
RS40-EPL20.3	RS40-LMC-EPL20.3	12.70	7.95	7.92	3.97	8.25	9.95	10.4	12.0	1.5	20.3	27.6
RS40-EPL29.8	RS40-LMC-EPL29.8	12.70	7.95	7.92	3.97	8.25	9.95	10.4	12.0	1.5	29.8	37.1
RS50-EPL19.3	RS50-LMC-EPL19.3	15.875	9.53	10.16	5.09	10.3	12.0	13.0	15.0	2.0	19.3	28.4
RS50-EPL23.8	RS50-LMC-EPL23.8	15.875	9.53	10.16	5.09	10.3	12.0	13.0	15.0	2.0	23.8	32.9
RS50-EPL31.2	RS50-LMC-EPL31.2	15.875	9.53	10.16	5.09	10.3	12.0	13.0	15.0	2.0	31.2	40.3
RS60-EPL19.9	RS60-LMC-EPL19.9	19.05	12.70	11.91	5.96	12.85	14.75	15.6	18.1	2.4	19.9	31.45
RS60-EPL24.2	RS60-LMC-EPL24.2	19.05	12.70	11.91	5.96	12.85	14.75	15.6	18.1	2.4	24.2	35.75
RS60-EPL31.6	RS60-LMC-EPL31.6	19.05	12.70	11.91	5.96	12.85	14.75	15.6	18.1	2.4	31.6	43.15
RS80-EPL30.8	RS80-LMC-EPL30.8	25.40	15.88	15.88	7.94	16.25	19.25	20.8	24.1	3.2	30.8	45.55
RS80-EPL39.1	RS80-LMC-EPL39.1	25.40	15.88	15.88	7.94	16.25	19.25	20.8	24.1	3.2	39.1	53.9
RS80-EPL42.3	RS80-LMC-EPL42.3	25.40	15.88	15.88	7.94	16.25	19.25	20.8	24.1	3.2	42.3	57.05
RS100-EPL37.7	RS100-LMC-EPL37.7	31.75	19.05	19.05	9.54	19.75	22.85	26.0	30.1	4.0	37.7	55.65
RS100-EPL45.0	RS100-LMC-EPL45.0	31.75	19.05	19.05	9.54	19.75	22.85	26.0	30.1	4.0	45.0	62.95
RS100-EPL50.7	RS100-LMC-EPL50.7	31.75	19.05	19.05	9.54	19.75	22.85	26.0	30.1	4.0	50.7	68.65

Chain Numbering

Special Extended Pin (RS)

RS40-LMC-1LEPL15.4 Extended pin projection (L3 in mm) Chain size - With extended pins Extended pin spacing

· Chain type Blank : Standard LMC : Lambda attachment chain

Connecting Link (CL)



E1: One extended pin E2: Two extended pins

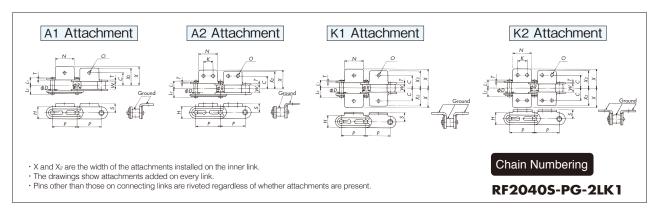
Design Stock

Design stock of reliable designs. Selecting from among these designs will improve overall design efficiency for your application.

The upper surfaces of the link plates and the outside of the rollers have been ground.



Ground Surface Attachment (Attachment Type: PG)



Attachment Dimensions

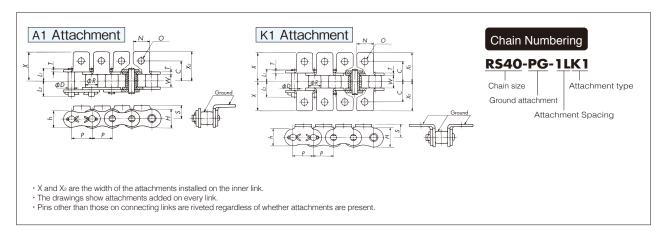
Tsubaki	Pitch	Inner Link Inner	Roller	Dia.R		Pin		Plo	ate			At	tachme	nt			Connecting
Chain No.	Р	Width W	S Roller	R Roller	Dia D	Lı	L2	Width H	Thickness <i>T</i>	С	K	Ν	0	S	Χ	X2	Link Type
RF2040-PG	25.40	7.95	7.90	15.80	3.97	8.25	9.95	12.0	1.5	12.7	9.5	19.1	3.6	8.9	19.3	17.6	Spring clip
RF2050-PG	31.75	9.53	10.12	18.97	5.09	10.30	12.0	15.0	2.0	15.9	11.9	23.8	5.2	10.9	24.2	22.0	Spring clip
RF2060-PG	38.10	12.70	11.88	22.15	5.96	14.55	16.55	17.2	3.2	21.45	14.3	28.6	5.2	14.4	31.5	28.2	Spring clip
RF2080-PG	50.80	15.88	15.71	28.50	7.94	18.30	20.9	23.0	4.0	27.8	19.1	38.1	6.8	18.8	40.7	36.6	Cotter pin

Note: 1. Chains without attachments are available only with S rollers.

- 2. On chains without attachments, the outer surface of the rollers is not ground. In this case, the roller diameters will differ from the dimensions given above. Roller diameter (R) for RF2040 is 7.92; RF2050S is 10.16; RF2060S is 11.91, and RF2080S is 15.88.
- 3. The top surface of the link plates is ground on chains without attachments. In this case, the plate widths H will differ from the dimensions given above. Width (H) for RF2040S is 11.9; RF2050S is 14.9; RF2060S is 17.1; and RF2080S is 22.7.



Ground Surface Attachment (Attachment Type: PG)



■ Attachment Dimensions

Tsubaki	Pitch	Inner Link Inner	Roller		Pin			Plate			Δ	\ttachmei	nt		Connecting
Chain No.	P	Width W	Dia R	Dia D	Lı	L ₂	Width h	Width H	Thickness T	С	N	0	S	Χ	Link Type
RS40-PG	12.70	7.95	7.90	3.97	8.25	9.95	10.4	12.0	1.5	12.7	9.5	3.6	7.8	17.8	Spring clip
RS50-PG	15.875	9.53	10.12	5.09	10.3	12.0	13.0	15.0	2.0	15.9	12.7	5.2	10.1	23.4	Spring clip
RS60-PG	19.05	12.70	11.88	5.96	12.85	14.75	15.6	18.1	2.4	19.05	15.9	5.2	11.6	28.2	Spring clip
RS80-PG	25.40	15.88	15.71	7.94	16.25	19.25	20.8	24.1	3.2	25.4	19.1	6.8	15.6	36.6	Cotter pin
RS100-PG	31.75	19.05	18.83	9.54	19.75	22.85	26.0	30.1	4.0	31.75	25.4	8.7	19.4	44.9	Cotter pin
RS120-PG	38.10	25.40	22.01	11.11	24.9	28.9	31.2	36.2	4.8	38.1	28.6	10.3	22.6	55.8	Cotter pin
RS140-PG	44.45	25.40	25.18	12.71	26.9	31.7	36.4	42.2	5.6	44.5	34.9	11.9	28.2	63.1	Cotter pin
RS160-PG	50.80	31.75	28.36	14.29	31.85	36.85	41.6	48.2	6.4	50.8	38.1	14.3	31.4	73.7	Cotter pin

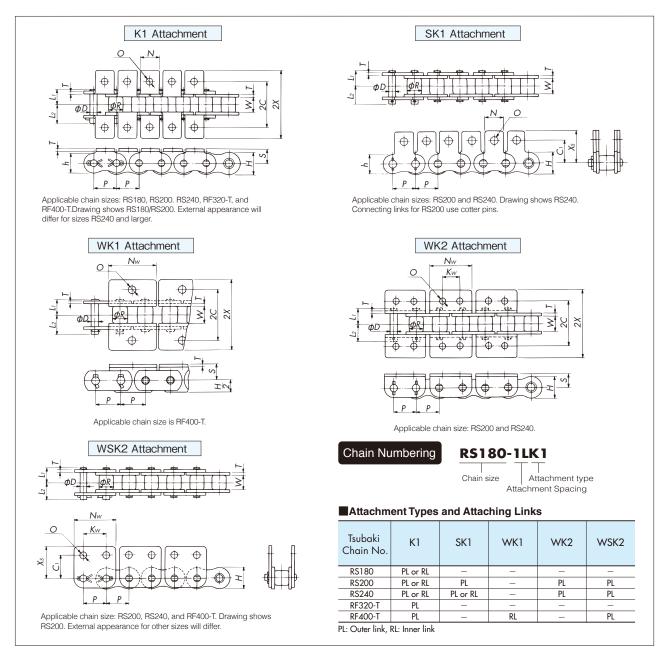
Note:X and X₂ are the widths of the attachments installed on the outer (pin) link and inner (roller) link, respectively. (For RS40 to RS100, X=X₂; for RS120, X₂=51.2; for RS140, X₂=58.0, and for RS160, X2=66.0)





RS® Large Size Chain with Attachment

Attachments for chain sizes RS180 and larger.



ı	Tsubaki	Pitch	Roller	Inner Link Inner		Pin			Plate		2C	C1	N.	0	c	2X	Xs	Nhu	Kw
	Chain No.	P	Dia R	Width W	Dia D	Lı	L2	h	Н	Т	20	C1	N	U	3		1 1 1 1	Nw	NW
	RS180	57.15	35.71	35.72	17.46	35.65	42.45	46.8	54.2	7.15	114.3	_	42.0	15.0	35.8	160.3	_	_	_
	RS200	63.50	39.68	38.10	19.85	39.0	44.8	52.0	60.3	8.0	127.0	63.5	48.0	17.5	42.9	167.0	85.5	115.4	63.5
	RS240	76.20	47.63	47.63	23.81	47.9	55.5	62.4	72.4	9.5	152.4	76.2	57.2	21.0	47.7	195.8	106.7	138.5	57.0
	RF320-T	101.6	63.5	63.65	31.75	63.8	77.6	_	92	12.7	203.2	_	76.2	25.4	85.5	281.3	_	_	_
	RF400-T	127.0	79 38	79.3	39.68	79 65	92 65	_	120	16.0	254.0	120	101.6	38.0	79 /	356.0	180	245	127

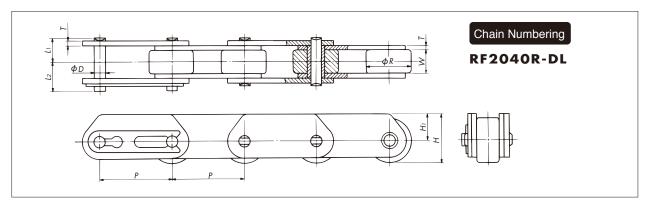
Design Stock

Design stock of reliable designs. Selecting from among these designs will improve overall design efficiency for your application.



Double Pitch Deep Link (Attachment Type: DL)

The height of the link plates (dimension H1) is higher than the top of the rollers on a double pitch base chain. Allows materials to be placed directly on the chain, even with R rollers.



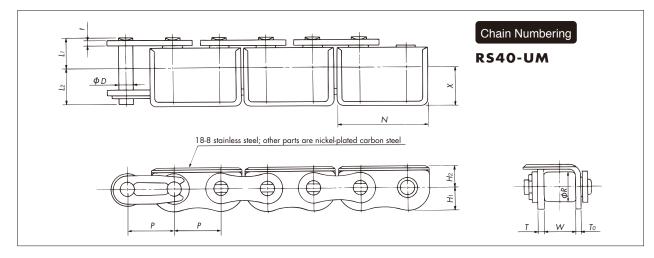
■Attachment Dimensions

Tsubaki	Pitch	Inner Link	Roller	Chain		Pin		Plo	ate	Connecting
Chain No.	Р	Inner Width W	Dia <i>R</i>	Height <i>H</i>	Dia D	L1	L2	Width Hi	Thickness T	Link Type
RF2040R-DL	25.40	7.95	15.88	(17.9)	3.97	8.25	9.95	10.0	1.5	Spring clip
RF2050R-DL	31.75	9.53	19.05	(21.5)	5.09	10.3	12.0	12.0	2.0	Spring clip
RF2060R-DL	38.10	12.70	22.23	(25.1)	5.96	14.55	16.55	14.0	3.2	Spring clip
RF2080R-DL	50.80	15.88	28.58	(32.2)	7.94	18.30	20.90	18.0	4.0	Cotter pin



Inwardly Bent Attachment

Conveyed materials can be placed directly or sandwiched between the inwardly bent attachments. The top edges are chamfered to protect conveyed materials from scratches.



Tsubaki	Pitch	Inner Link Inner	Roller Dia		Pin					Plate			
Chain No.	Р	Width W	R	Dia D	Lı	L2	Hı	H2	N	Χ	Т	t	То
RS40-UM	12.70	7.95	7.92	3.97	8.25	9.95	7.0	5.7	24.4	11.3	1.5	1.5	1.25
RS50-UM	15.875	9.53	10.16	5.09	10.3	12.0	8.5	7.1	30.5	13.1	2.0	2.0	1.5



[·] Maximum allowable load differs from RS attachment chain. Contact a Tsubaki representative for details.

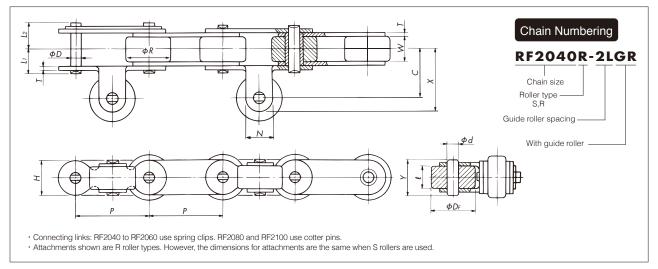




Guide rollers prevent meandering and can be used as running rollers. (Not a curved chain.)



Guide Roller (Attachment Type: GR)

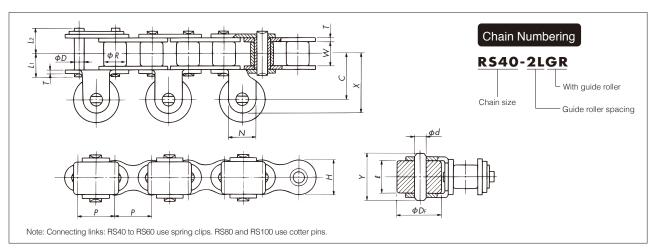


■Attachment Dimensions

Tsubaki	Pitch	Inner Link Inner	Roller	Dia.R		Pin		Pl	ate		А	ttachme	nt		Guide	Roller
Chain No.	P	Width W	S Roller	R Roller	Dia D	Lı	L2	Width H	Thickness T	С	Χ	N	Y	d	DF	e
RF2040-GR	25.40	7.95	7.92	15.88	3.97	8.25	9.95	12.0	1.5	17.45	22.20	9.5	13.2	3.97	15.88	7.8
RF2050-GR	31.75	9.53	10.16	19.05	5.09	10.30	12.00	15.0	2.0	21.15	27.50	12.7	16.2	5.09	19.05	9.4
RF2060-GR	38.10	12.70	11.91	22.23	5.96	14.55	16.55	17.2	3.2	27.00	34.95	15.9	22.2	5.96	22.23	12.6
RF2080-GR	50.80	15.88	15.88	28.58	7.94	18.30	20.90	23.0	4.0	33.35	42.90	19.1	27.4	7.94	28.58	15.8
RF2100-GR	63.50	19.05	19.05	39.69	9.54	21.80	24.50	28.6	4.8	42.85	55.55	25.4	32.7	9.54	39.69	19.0



Guide Roller (Attachment Type: GR)



Tsubaki	Pitch	Inner Link Inner	Roller		Pin		Plo	ate		Α	\ttachmei	nt		Guide	Roller
Chain No.	P	Width W	Dia R	Dia D	Lı	L2	Width H	Thickness T	С	Χ	N	Y	d	DF	e
RS40-GR	12.70	7.95	7.92	3.97	8.25	9.95	12.0	1.5	17.45	22.20	9.5	16.5	3.97	15.88	11.05
RS50-GR	15.875	9.53	10.16	5.09	10.30	12.00	15.0	2.0	21.15	27.50	12.7	20.6	5.09	19.05	13.75
RS60-GR	19.05	12.70	11.91	5.96	12.85	14.75	18.1	2.4	25.40	33.35	15.9	25.7	5.96	22.23	17.65
RS80-GR	25.40	15.88	15.88	7.94	16.25	19.25	24.1	3.2	31.75	41.30	19.1	32.5	7.94	28.58	22.50
RS100-GR	31.75	19.05	19.05	9.54	19.75	22.85	30.1	4.0	41.30	54.00	25.4	39.5	9.54	39.69	27.40

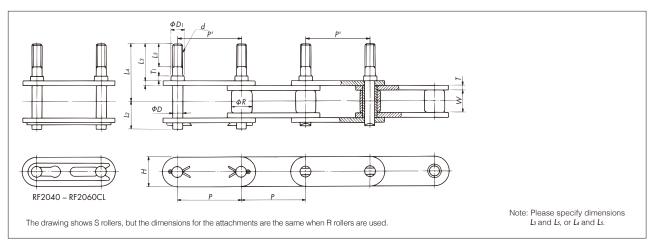
Design Stock

Design stock of reliable designs. Selecting from among these designs will improve overall design efficiency for your application.

Extended pins (high-strength/hardened steel) are threaded to enable tools, jigs, and so on to be attached. Mounting a tool or jig that straddles two pins is constrained by P', the distance between pin centerlines. Contact a Tsubaki representative regarding dimension P'.



Threaded Extended Pin (Attachment Type: EN)

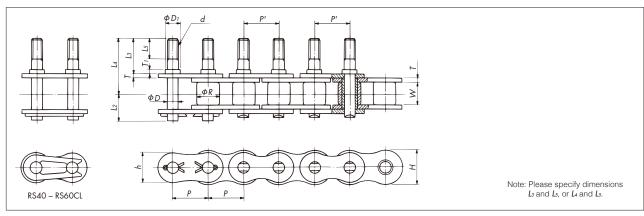


Attachment Dimensions

T 1 1:0	SI	Pitch	Inner Link Inner	Roller	Dia.R			Pin			Plo	ate	Connecting
Isubaki C	Chain No.	P	Width W	S Roller	R Roller	Dia D	Dı	d	Tı	L2	Width H	Thickness T	Link Type
RF2040S-EN	RF2040R-EN	25.40	7.95	7.92	15.88	3.97	5.00	M4	1.5	9.95	12.0	1.5	Spring clip
RF2050S-EN	RF2050R-EN	31.75	9.53	10.16	19.05	5.09	6.35	M5	2.0	12.0	15.0	2.0	Spring clip
RF2060S-EN	RF2060R-EN	38.10	12.70	11.91	22.23	5.96	8.35	M6	2.4	16.55	17.2	3.2	Spring clip
RF2080S-EN	RF2080R-EN	50.80	15.88	15.88	28.58	7.94	9.88	M8	3.2	20.90	23.0	4.0	Cotter pin
RF2100S-EN	RF2100R-EN	63.50	19.05	19.05	39.69	9.54	11.46	M10	4.0	24.50	28.6	4.8	Cotter pin



Threaded Extended Pin (Attachment Type: EN)

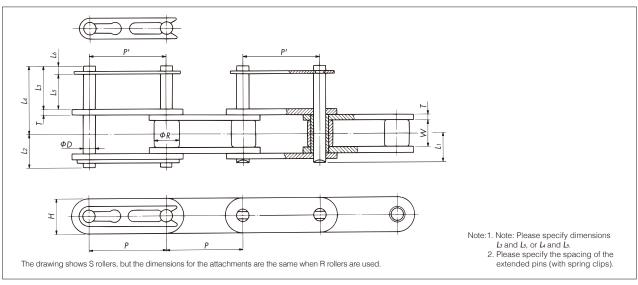


Tsubaki	Pitch	Inner Link Inner	Roller			Pin				Plate		Connecting
Chain No.	P	Width W	Dia <i>R</i>	Dia D	Dı	d	T ₁	L2	Width h	Width H	Thickness T	Link Type
RS40-EN	12.70	7.95	7.92	3.97	5.00	M4	1.5	9.95	10.4	12.0	1.5	Spring clip
RS50-EN	15.875	9.53	10.16	5.09	6.35	M5	2.0	12.0	13.0	15.0	2.0	Spring clip
RS60-EN	19.05	12.70	11.91	5.96	8.35	M6	2.4	14.75	15.6	18.1	2.4	Spring clip
RS80-EN	25.40	15.88	15.88	7.94	9.88	M8	3.2	19.25	20.8	24.1	3.2	Cotter pin
RS100-EN	31.75	19.05	19.05	9.54	11.46	M10	4.0	22.85	26.0	30.1	4.0	Cotter pin
RS120-EN	38.10	25.40	22.23	11.11	13.07	M12	4.8	28.90	31.2	36.2	4.8	Cotter pin

Tools and so on can be attached on the extended pins and locked by using the spring clips . Mounting a tool or jig that straddles two pins is constrained by P', the distance between pin centerlines. Contact a Tsubaki representative regarding dimension P'.



Extended Pin with Spring Clip (Attachment Type: EC)

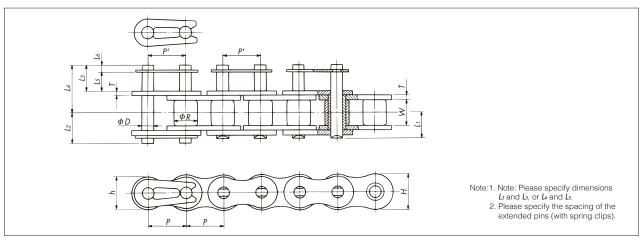


■Attachment Dimensions

T	SI .	Pitch	Inner Link Inner	Roller	Dia.R		Р	in		Plo	ate	Connecting
Isubaki C	Chain No.	Р	Width W	S Roller	R Roller	Dia D	Lı	L2	L6	Width H	Thickness T	Link Type
RF2040S-EC	RF2040R-EC	25.40	7.95	7.92	15.88	3.97	8.25	9.95	(2.8)	12.0	1.5	Spring clip
RF2050S-EC	RF2050R-EC	31.75	9.53	10.16	19.05	5.09	10.3	12.0	(3.0)	15.0	2.0	Spring clip
RF2060S-EC	RF2060R-EC	38.10	12.70	11.91	22.23	5.96	14.55	16.55	(3.4)	17.2	3.2	Spring clip



Extended Pin with Spring Clip (Attachment Type: EC)



Tsubaki Chain No.	Pitch	Inner Link Inner	Roller Dia		Р	in			Plate		Connecting
isubaki Chain No.	P	Width W	R	Dia D	Lı	L2	L ₆	Width h	Width H	Thickness T	Link Type
RS40-EC	12.70	7.95	7.92	3.97	8.25	9.95	(2.8)	10.4	12.0	1.5	Spring clip
RS50-EC	15.875	9.53	10.16	5.09	10.3	12.0	(3.0)	13.0	15.0	2.0	Spring clip
RS60-EC	19.05	12.70	11.91	5.96	12.85	14.75	(3.4)	15.6	18.1	2.4	Spring clip

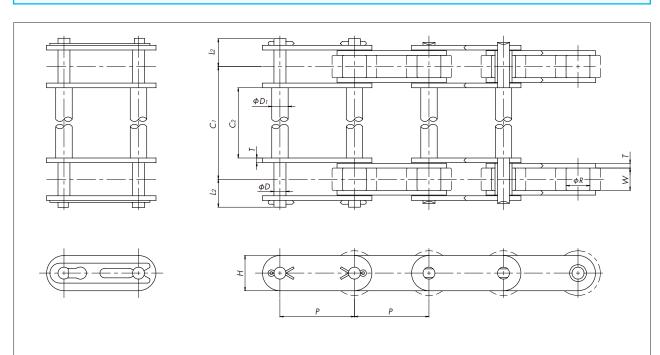
Design Stock

Design stock of reliable designs. Selecting from among these designs will improve overall design efficiency for your

Pins are made longer to form parallel strands of chain. Ideal for conveying items on top of the pins, such as by attaching a mesh net.



Stay Pin (Attachment Type: ST)



- Note: 1. Base chain may also use spring clips or cotter pins, depending on the length of the stay pins.
 2. Total width (Cr + 2l2) should be less than 400mm. Chains with this dimension wider than 400mm can be manufactured, but actual pin and C2 specifications may differ. Contact a Tsubaki representative for details.
 3. Dimension D1 differs for stainless steel chain. Contact a Tsubaki representative for details.
 4. This chain is provided with connecting links on both ends.

■Attachment Dimensions

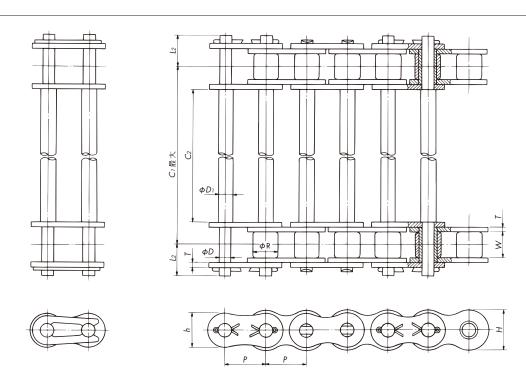
T 1 1:7	51 · NI	Pitch	Inner Link Inner	Roller	Dia.R		Pi	in		Pl	ate	Connecting
Isubaki (Chain No.	Р	Width W	S Roller	R Roller	Dia D	Dı	L2	C1,C2	Width H	Thickness T	Link Type
RF2040S-ST	RF2040R-ST	25.40	7.95	7.92	15.88	3.97	5.84 (5.2)	9.95		12.0	1.5	Spring clip
RF2050S-ST	RF2050R-ST	31.75	9.53	10.16	19.05	5.09	6.35(6.1)	12.0		15.0	2.0	Spring clip
RF2060S-ST	RF2060R-ST	38.10	12.70	11.91	22.23	5.96	8.35 (8.07)	16.55	Specify	17.2	3.2	Spring clip
RF2080S-ST	RF2080R-ST	50.80	15.88	15.88	28.58	7.94	9.88	20.90	dimension	23.0	4.0	Cotter pin
RF2100S-ST	RF2100R-ST	63.50	19.05	19.05	39.69	9.54	11.46	24.50	C1 or C2	28.6	4.8	Cotter pin
RF2120S-ST	RF2120R-ST	76.20	25.40	22.23	44.45	11.11	13.07	30.55		34.4	5.6	Cotter pin
RF2160S-ST	RF2160R-ST	101.60	31.75	28.58	57.15	14.29	17.90	38.45		48.2	7.15	Cotter pin

Note: Figures inside < > are for stainless steel chain.





Stay Pin (Attachment Type: ST)



- Note:1. Base chain may also use spring clips or cotter pins, depending on the length of the stay pins.
 2. Total width (Cr + 2l2) should be less than 400mm. Chains with this dimension wider than 400mm can be manufactured, but actual pin and C2 specifications may differ. Contact a Tsubaki representative for details.
 3. Dimension D1 differs for stainless steel chain. Contact a Tsubaki representative for details.
 4. This chain is provided with connecting links on both ends.

■Attachment Dimensions

Tsubaki	Pitch	Inner Link Inner	Roller		Pi	n			Plate		Connecting
Chain No.	P	Width W	Dia R	Dia D	Dı	L2	C1,C2	Width h	Width H	Thickness T	Link Type
RS35-ST	9.525	4.78	(5.08)	3.59	5.0	6.85		7.8	9.0	1.25	Spring clip
RS40-ST	12.70	7.95	7.92	3.97	5.84 (5.2)	9.95		10.4	12.0	1.5	Spring clip
RS50-ST	15.875	9.53	10.16	5.09	6.35(6.1)	12.0		13.0	15.0	2.0	Spring clip
RS60-ST	19.05	12.70	11.91	5.96	8.35 (8.07)	14.75	Specify	15.6	18.1	2.4	Spring clip
RS80-ST	25.40	15.88	15.88	7.94	9.88	19.25	dimension	20.8	24.1	3.2	Cotter pin
RS100-ST	31.75	19.05	19.05	9.54	11.46	22.85	C1 or C2	26.0	30.1	4.0	Cotter pin
RS120-ST	38.10	25.40	22.23	11.11	13.07	28.9		31.2	36.2	4.8	Cotter pin
RS140-ST	44.45	25.40	25.40	12.71	14.67	31.7		36.4	42.2	5.6	Cotter pin
RS160-ST	50.80	31.75	28.58	14.29	17.90	36.85		41.6	48.2	6.4	Cotter pin

Note: Roller diameter R (in parentheses) for RS35-ST is the bush diameter. Figures inside < > are for stainless steel.

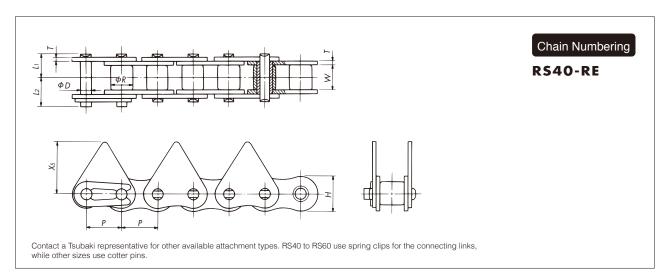
Design Stock

Design stock of reliable designs. Selecting from among these designs will improve overall design efficiency for your application.



Triangle Attachment (Attachment Type: RE)

Ideal chain for conveying various types of bar-like attachments.



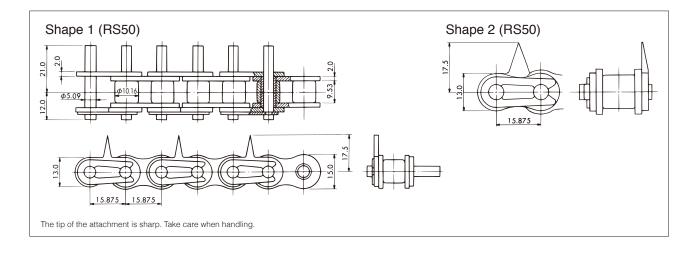
Attachment Dimensions

Tsubaki	Pitch	Inner Link Inner	Roller		Pin			Plate	
Chain No.	P	Width W	Dia <i>R</i>	Dia D	Lı	L2	Width H	Thickness T	Height <i>X</i> s
RS40-RE	12.70	7.95	7.92	3.97	8.25	9.95	12.0	1.5	17.9
RS50-RE	15.875	9.53	10.16	5.09	10.3	12.0	15.0	2.0	23.5
RS60-RE	19.05	12.70	11.91	5.96	12.85	14.75	18.1	2.4	20.8
RS80-RE	25.40	15.88	15.88	7.94	16.25	19.25	24.1	3.2	29.0
RS100-RE	31.75	19.05	19.05	9.54	19.75	22.85	30.1	4.0	34.6



Sticker Attachment (Attachment Type: FS)

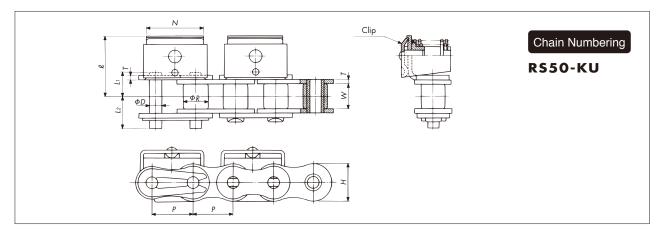
The attachment is topped with a sharp barb-like spike to grip flat objects such as film. Specify the attachment shape and tip machining (shape left as punched, chamfered edges, ground edges, etc.).





Gripper Attachment (Attachment Types: KU, KUM)

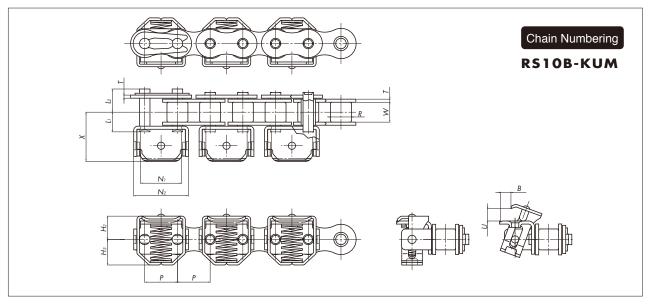
Gripper attachment for gripping and conveying film, etc.



■Attachment Dimensions

Tsubaki	Pitch	Roller	Inner Link Inner		Pin		Plo	ate	С	lip
Chain No.	P	Dia <i>R</i>	Width W	Dia D	Lı	L2	Width H	Thickness <i>T</i>	l	N
RS08B-KU	12.70	8.51	7.75	4.45	8.53	10.05	11.8	1.5	20.15	18.0
RS50-KU	15.875	10.16	9.53	5.09	12.0	15.0	15.0	2.0	26.7	18.0

Note: Available in steel, nickel-plated steel, or stainless steel, Lambda NP.



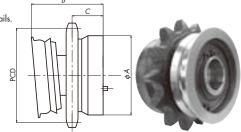
■Attachment Dimensions

	Tsubaki	Pitch	Koller	Inner Link Inner		Pin		Plo	ate	Y	Nı	N ₂	H ₂	Нз	11	R	Spring
	Chain No.	Р	Dia R	Width W	Dia D	Lı	L2	Width H1	Thickness <i>T</i>	^	INI	142	1 12	113		Б	Load
_	RS08B-KUM	12.70	8.51	7.75	4.45	8.4	10.0	12.0	1.6	20.3	16.8	22.8	10.5	10.8	(4.2)	(3.7)	50
	RS10B-KUM	15.875	10.16	9.65	5.08	9.55	11.25	14.7	1.5	23.9	20.0	26.6	11.3	12.4	(6.0)	(5.0)	70

Note: 1. Steel, nickel-plated steel, Lambda NP, and stainless steel types are available.
2. Spring load values are for when the spring is closed.
3. Lambda Chain specifications are also available. Contact a Tsubaki representative for more details.

■Gripper Chain® Sprockets

	Chain Size	No. of Teeth	Dimension PCD (mm)	<i>ΦA</i> (mm)	B (mm)	C (mm)
	RSO8B	1 <i>7</i> T	69.12	60.0	47.0	24.4
	RS10B	14T	71.34	60.0	49.5	23.5
_	RS10B	19T	96.45	82.0	49.5	23.5



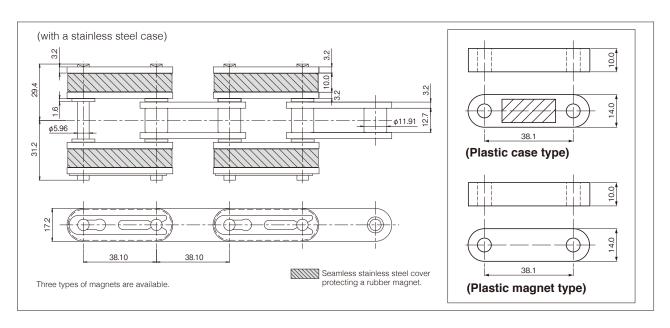
Design Stock

Design stock of reliable designs. Selecting from among these designs will improve overall design efficiency for your application.



Magnetic Attachment (Attachment Type: MG)

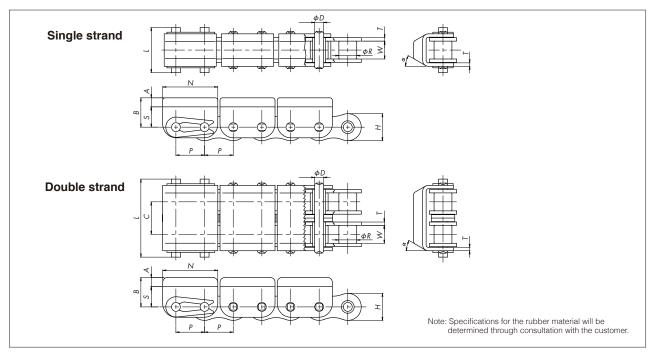
A magnet mounted on the attachment holds conveyed objects. Can be used for inclined conveyance.





Rubber Attachment (Attachment Type: RSG)

A layer of rubber is bonded to the attachment. The elasticity of the rubber allows objects to be conveyed between chains.



- 1 1: N	No.		Roller	Width	Transverse _ Pitch C	Pin		Plate		Attachment					
Tsubaki Chain No.	Chain No. Strands	Pitch P	Dia ΦR	Between Inner Link Plates W		Dia φD	Length L	Width H	Thickness T	N	S	Α	В	α	
RS40	1	12.70	7.92	7.95	_	3.97	20.0	12.0	1.5	24.4	9.0	4.0	13.0	30°	
RS40-2	2	12.70	7.92	7.95	14.4	3.97	34.6	12.0	1.5	24.4	9.0	4.0	13.0	30°	
RS40-3	3	12.70	7.92	7.95	14.4	3.97	48.8	12.0	1.5	24.4	9.0	6.0	15.0	0°	
RS50-2	2	15.875	10.16	9.53	18.1	5.09	42.0	15.0	2.0	28.8	13.0	10.0	23.0	20°	
RS60	1	19.05	11.91	12.7	_	5.96	29.5	18.1	2.4	34.6	13.0	10.0	23.0	0°	
RS60-2	2	19.05	11.91	12.7	22.8	5.96	52.4	18.1	2.4	34.6	13.0	10.0	23.0	20°	



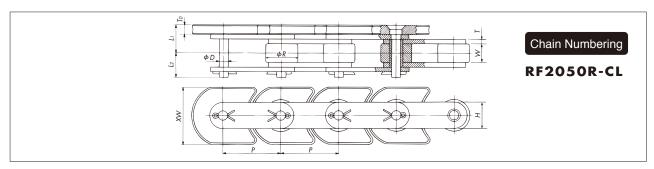
^{*}Dimension L is calculated as both ends of the chain having a connecting link.





Crescent Top Plate (Attachment Type: CL)

For horizontal circular conveyance.



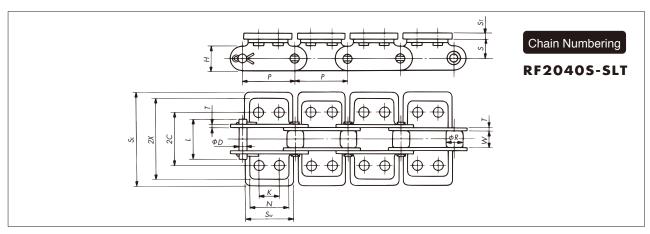
■Attachment Dimensions

Tsubaki	Pitch	Roller	Inner Link Inner Width W		Pin		Pl	ate	Top Plate	
Chain No.	P	Dia R		Dia D	Lı	L2	Width <i>H</i>	Thickness <i>T</i>	Width <i>XW</i>	Thickness To
RF2050R-CL	31.75	19.05	9.53	5.09	15.05	11.9	15.0	2.0	32	6.0
RF2060R-CL	38.10	22.23	12.70	5.96	19.5	16.95	17.2	3.2	38.1	6.35
RF2080R-CL	50.80	28.58	15.88	7.94	24.2	21.1	23.0	4.0	50	8.0
RF2100R-CL	63.50	39.69	19.05	9.54	25.9	24.3	28.6	4.8	63.5	6.35



Slat (Attachment Type: SLT [Riveted])

Slats are installed on tough RF Double Pitch Chains. Ideal for conveying relatively heavy material.



Tsubaki Chain No.		Pitch	Inner Link Inner	Roller	Dia.R	P	in	Plate		
		Р	Width W	S Roller	R Roller	L	Dia D	Width H	Thickness T	
RF2040S-SLT	RF2040R-SLT	25.40	7.95	7.92	15.88	19.3	3.97	12.0	1.5	
RF2050S-SLT	RF2050R-SLT	31.75	9.53	10.16	19.05	23.8	5.09	15.0	2.0	
RF2060S-SLT	RF2060R-SLT	38.10	12.70	11.91	22.23	33.9	5.96	17.2	3.2	
RF2080S-SLT	080S-SLT RF2080R-SLT		15.88	15.88	28.58	41.9	7.94	23.0	4.0	

Tsubaki Chain No.		2C	2X	К	N	S	Sī	Sı	Sw
RF2040S-SLT	RF2040R-SLT	25.4	38.6	9.5	19.1	9.1	3.2	50.8	24.0
RF2050S-SLT	RF2050R-SLT	31.8	48.4	11.9	23.8	11.1	4.0	63.5	30.0
RF2060S-SLT	RF2060R-SLT	42.9	63.0	14.3	28.6	14.7	4.8	76.2	36.0
RF2080S-SLT	RF2080R-SLT	55.6	81.4	19.1	38.1	19.1	5.6	101.6	48.0

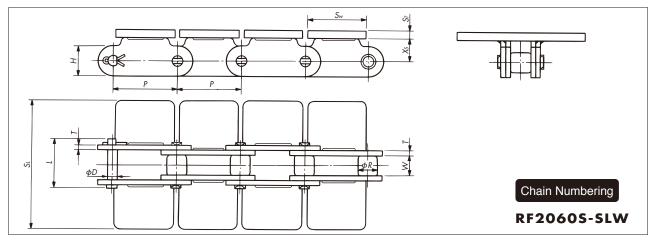
Design Stock

Design stock of reliable designs. Selecting from among these designs will improve overall design efficiency for your application.



Slat (Attachment Type: SLW [Welded])

Slats are installed on RF Double Pitch Chains. Ideal for conveying relatively heavy material.



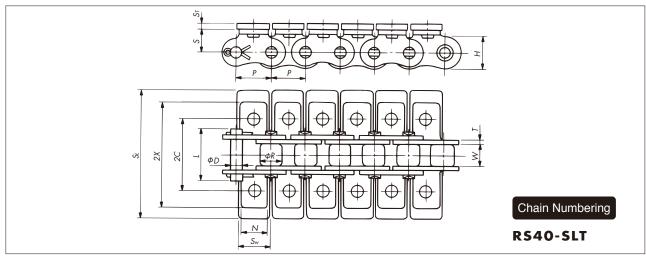
■Attachment Dimensions

Tools als: 0	Shada Nia	Pitch	Inner Link Inner	Roller I	Dia.R	Pi	in	Ple	ate	ST	SL	SW	XS
Tsubaki Chain No.		P	Width W	S Roller	R Roller	L	Dia D	Width H	Thickness T	31	JL	344	7.5
RF2060S-SLW	RF2060R-SLW	38.10	12.70	11.91	22.23	31.5	5.96	17.2	3.2	3.2	76.2	36.0	14.7
RF2080S-SLW	RF2080R-SLW	50.80	15.88	15.88	28.58	39.9	7.94	23.0	4.0	4.5	101.6	48.0	19.1



RS Slate (Attachment Type: SLT [Riveted])

Small pitch RS chains mean short attachment spacing, making them perfect for conveying small items. Small pitches also mean smooth operation.



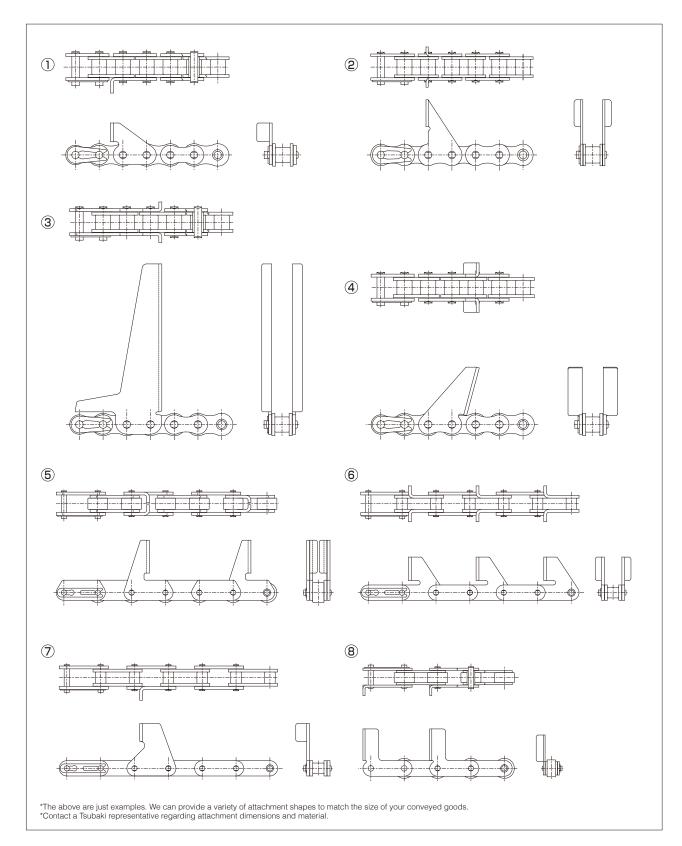
Tsubaki	Pitch P	Inner Link Inner	Roller Dia	Pi	in		ate	2C	2X	N	S	Sτ	Sı	Sw
Chain No.		Width W	R	Dia D	L	Width H	Thickness T	20	271		3	O1	OL	
RS40-SLT	12.70	7.95	7.92	3.97	19.3	12.0	1.5	25.4	35.6	9.5	8.0	3.2	50.8	12.0
RS50-SLT	15.875	19.53	10.16	5.09	23.8	15.0	2.0	31.8	46.8	12.7	10.3	3.2	63.5	15.0
RS60-SLT	19.05	12.70	11.91	5.96	30.5	18.1	2.4	38.1	56.4	15.9	11.9	4.0	76.2	18.0
RS80-SLT	25.40	15.88	15.88	7.94	38.5	24.1	3.2	50.8	73.2	19.1	15.9	4.8	101.6	24.0





Pusher Attachment (Attachment Type: SD)

Ideal for directly pushing conveyed items.



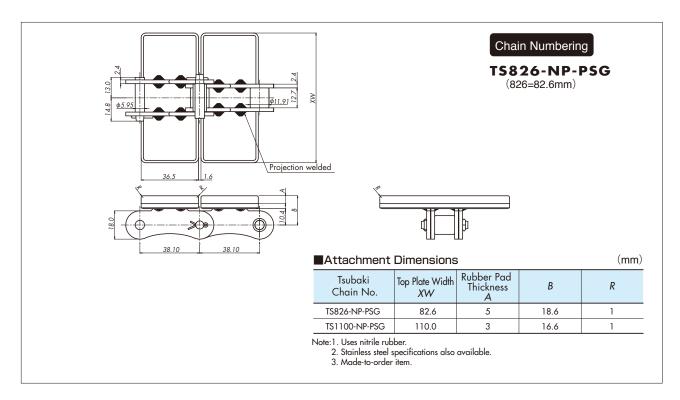
Design Stock

Design stock of reliable designs. Selecting from among these designs will improve overall design efficiency for your application.



Top Plate with Bonded Rubber Pad (Attachment Type: PSG)

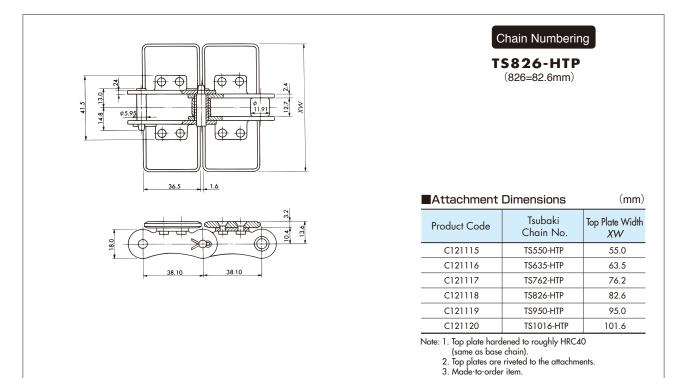
Rubber pads have been bonded onto the top plates to prevent scratching items.





Tempered Top Plate (Attachment Type: HTP)

The carbon steel top plate has been hardened and tempered to prevent scratching.

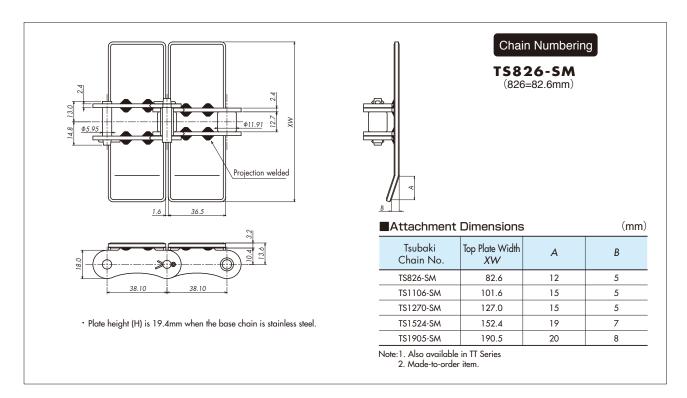






Bent End Top Plate (Attachment Type: SM)

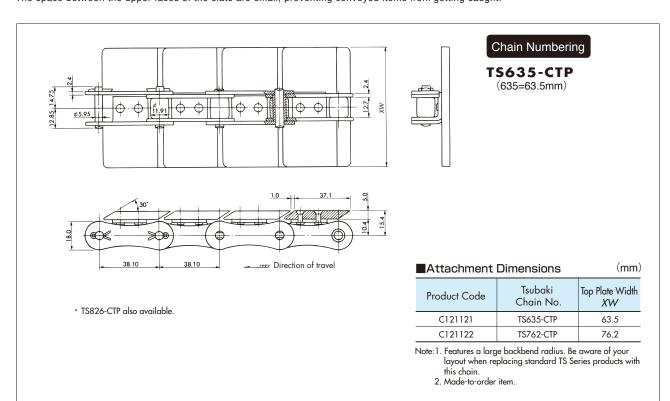
Enables smooth lateral transfer of conveyed items.





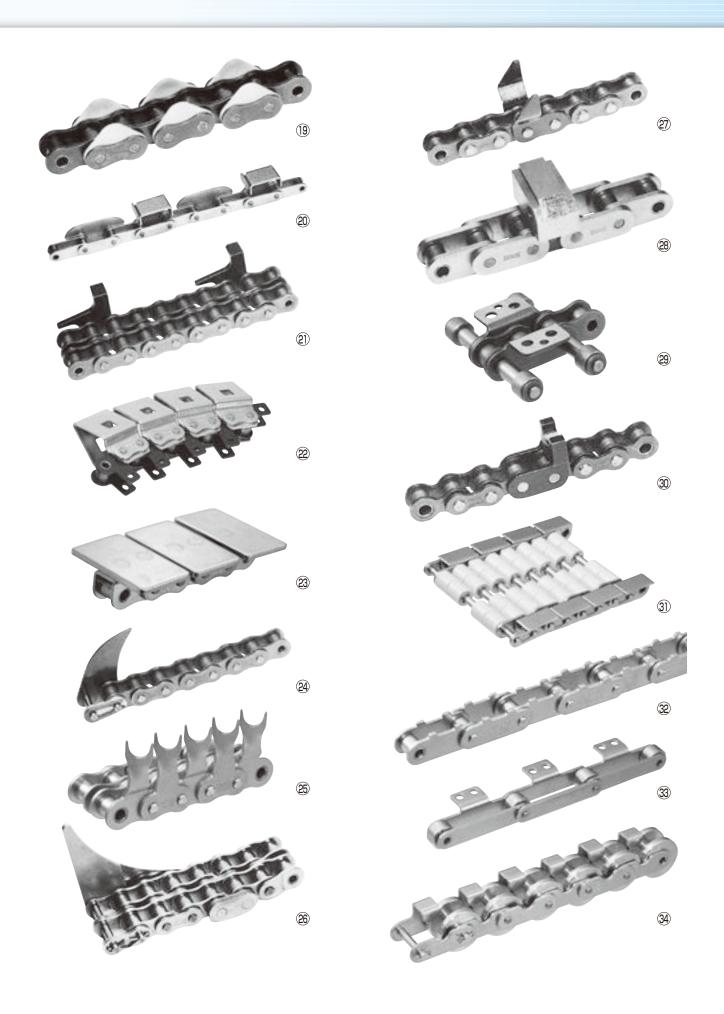
Inclined Top Plates (30°) (Attachment Type: CTP)

The space between the upper faces of the slats are small, preventing conveyed items from getting caught.

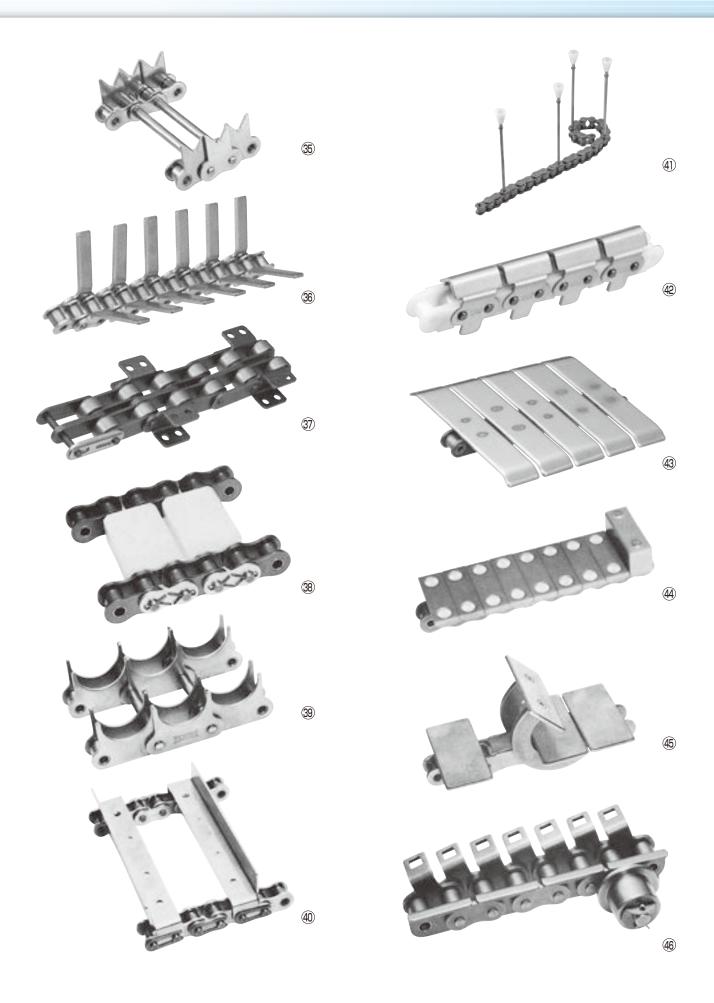


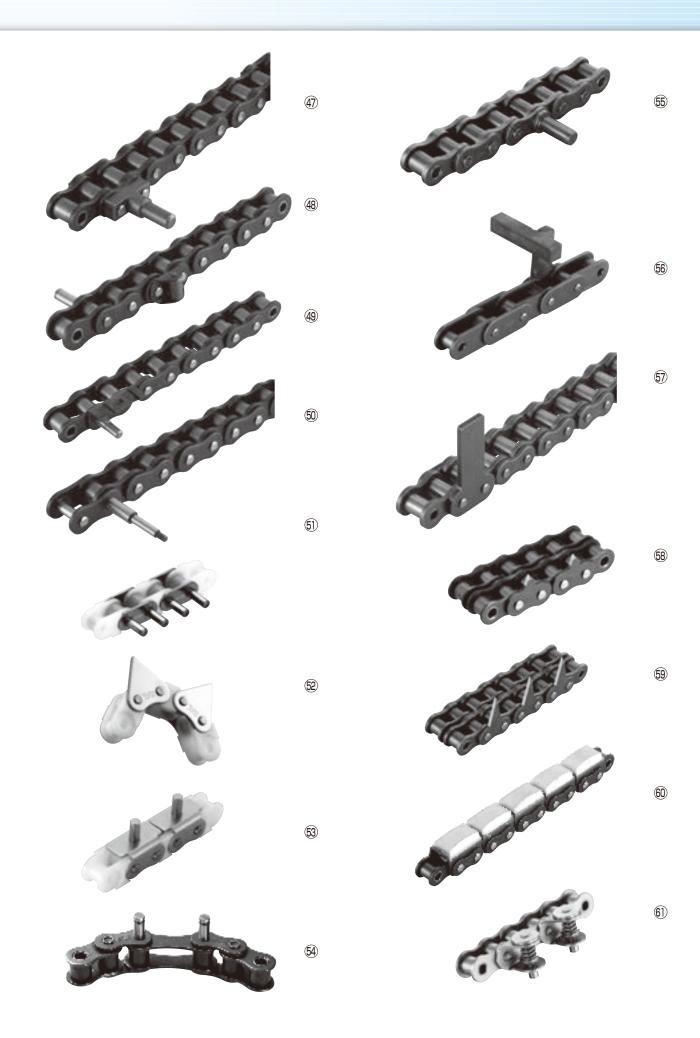
Special Attachments

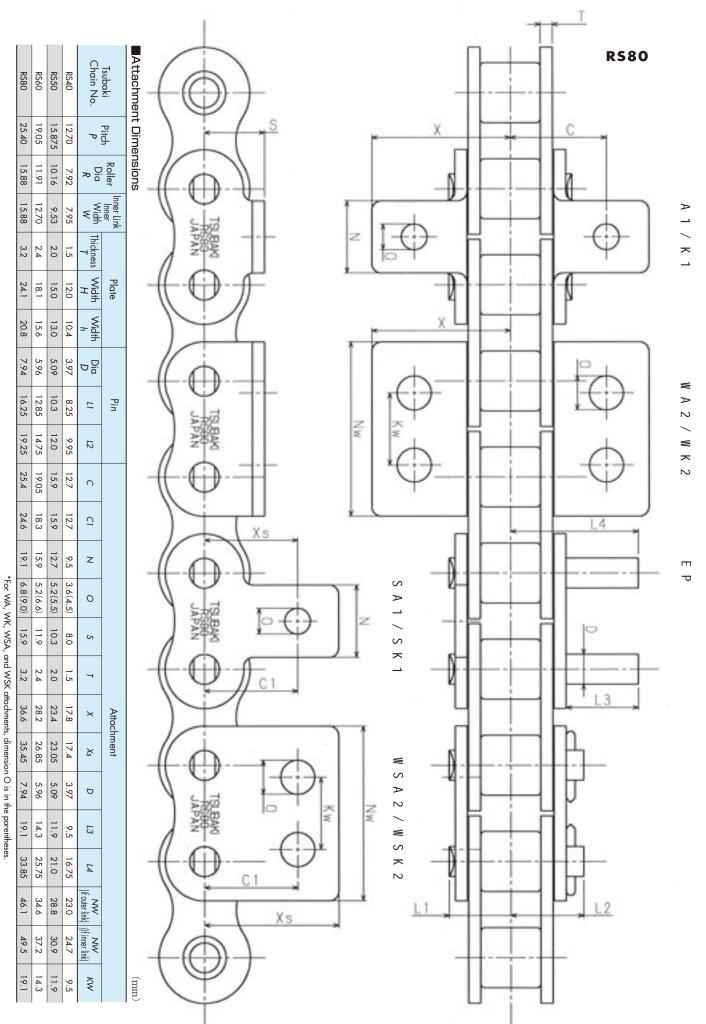
■Examples of special attachments 11) **(5)** 14) 17)

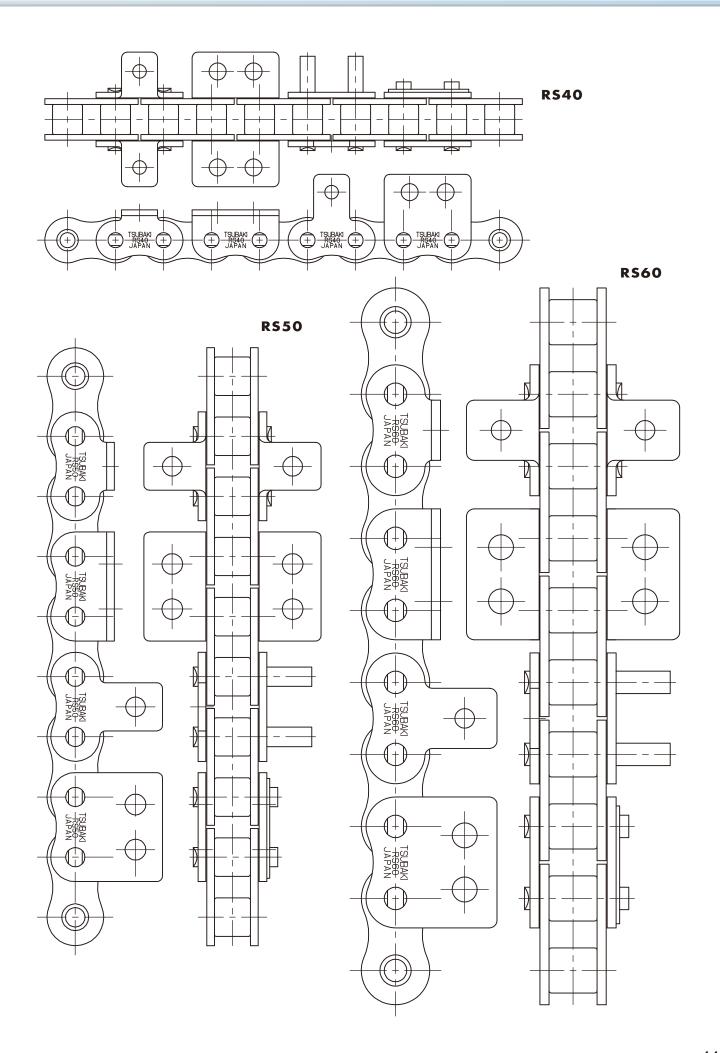


Special Attachments









Small Size Conveyor Chain Inquiry Sheet (for Integrated Attachment Chain)

Anticipated effects	our inquiry, please be sure to circle one of the formation in the sure to circle one of the formation in the		cient production lines
of using integrated attachment chain	Less time spent ordering Prevent foreign mate		Less time spent on design t Shorter delivery Other:
Machine used		Chain speed*	m/min
Туре	New equipment Existing equipment Replacement or remodeling	Min. tensile strength	kN(kgf)
Planned chain replacement (date)	· · · · · · · · · · · · · · · · · · ·	Chain pitch	mm
Operating temperature	Room temp. °C	Attachment type* EP/A/K/SA/SK/WA/	att. every links
Corrosiveness		WSA/Special	
Abrasiveness		Conveyance method*	Pushed by dogs, direct conveyance, horizontal conveyance, inclined conveyance
Conveyed item(s) (name)		Other details	
Conveyed item(s) temp.*	Room temp. °C	Operating time	hrs/day
Conveyed item(s) dimensions (shape)*		Operating method	Continuous intermittent Reverse (yes/no)
Conveyed item(s) weight	Max. kg/each	Lubricated operation?	Yes / no
0	Max. ton/hour (bulk)	Motor used	AC/DC kW x rpm x moto
Conveyance weight	kg/each (countable)	Sprocket no. of teeth	NT (PCD mm)
No. of items (weight)*	Max	Sprocket bore dia.	ф Н8/Н7
Conveyor length*	m	Hub	Туре () ϕ х L
Lifting height*	m	Keyway	Not required () JIS/b x t parallel/driving
No. of chain strands*	strands (spacing: m)	Sprocket tooth finishing	Machine cut Induction hardening
②Jig mounting m	nethod, points, etc.		
③Jig unit cost, m	ounting cost, mounting time, procurement me	ethod, etc.	
Configuration of co	f machine used and chain: onveyor, method for loading and unloading of items et position, direction of travel, chain guide, points of		
Company na	me:		

For Your Safety When Using the Chain

For Your Safety When Using the Chain



Warning

To avoid danger, observe the following rules.

- Do not use chain or chain accessories for any purpose other than their originally intended use.
- Never perform additional work on chain.
 - · Do not anneal any chain parts.
 - · Do not clean chain with acids or alkalis. These may cause cracking.
 - · Never attempt to electroplate chain or chain parts. This may cause hydrogen embrittlement.
 - · Do not weld chain. Heating effects will cause weakening and cracking.
 - · When a torch is used to heat or cut chain, remove the links on each side and do not reuse them.
- When replacing a worn or damaged part, do not replace just the worn or damaged part. Replace all parts with new parts.
- If a material that causes hydrogen embrittlement (acid, strong alkali, battery fluid, etc.) comes in contact with the chain, immediately stop using the chain and replace it with new chain.
- When using chain in a lifting device, set up a safety barrier and do not allow anyone to go under the equipment.
- Always install safety equipment (safety covers, etc.) on chain and sprockets.
- 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.
- When installing, removing, inspecting, maintaining and oiling chain,
 - Perform the work as instructed in the manual, catalog or other documentation that was provided with the product.
 - · Before starting work, turn off the power switch and take measures to prevent it from being turned on accidentally.
 - · Secure the chain and parts to prevent them from moving freely.
 - · Use a press tool or other special tools to separate or connect chain, and follow the correct procedures.
 - · Remove and insert pins and rivets in the correct direction.
 - · Wear clothing and protective gear (safety glasses, gloves, safety shoes, etc.) that are appropriate for the work.
 - · Only experienced personnel should perform chain replacement.



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.
- Minimum tensile strength refers to the failure point when the corresponding load is applied to the chain once and does not refer to the allowable operational load.

Warranty

1. LIMITED 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 nonconforming 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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