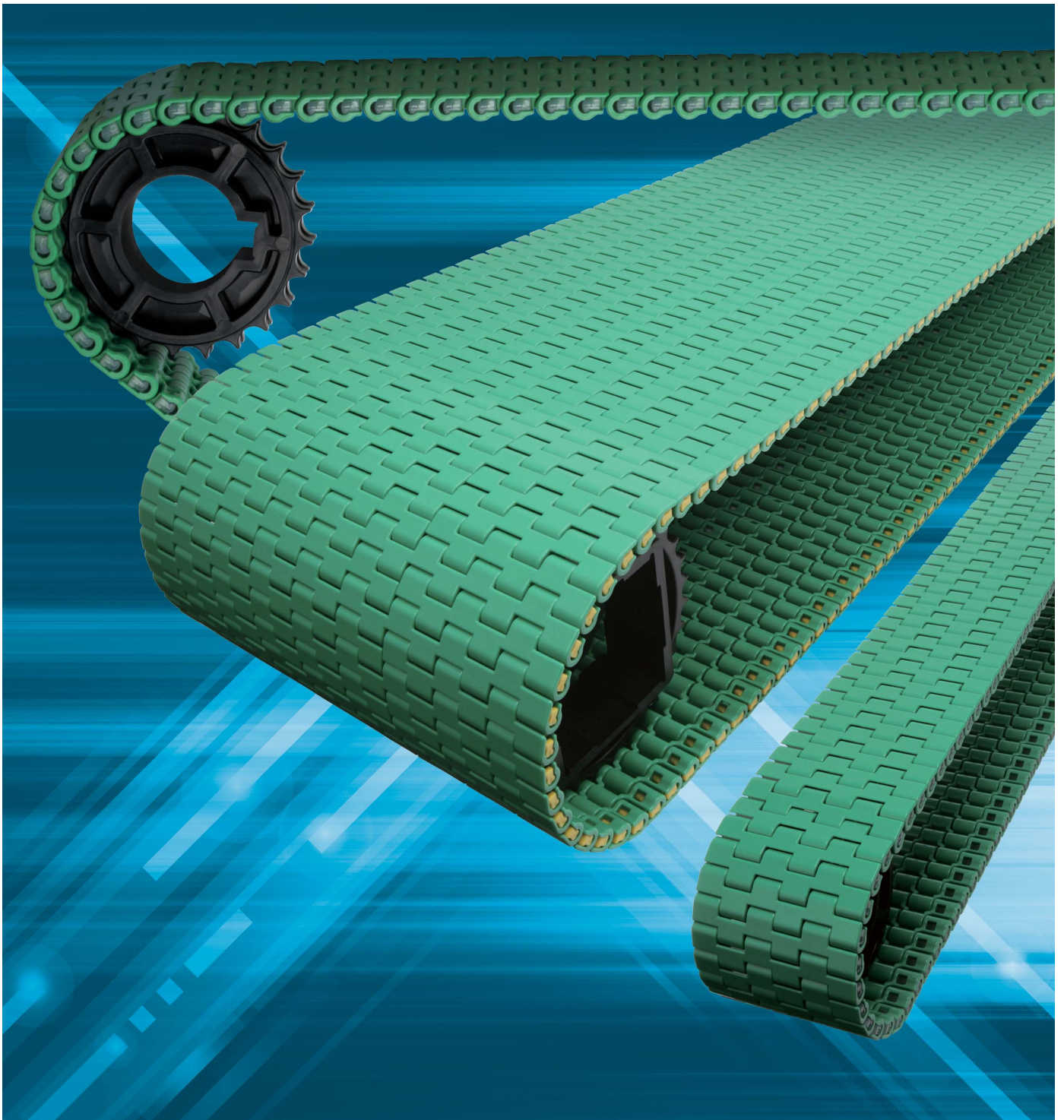


TSUBAKI PLASTIC MODULAR CHAIN WT0705-W

Plastic Top Chain



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

▼ Features of WT0705-W Plastic Modular Chain ▼



Knife-edge conveyor applications



Less noise

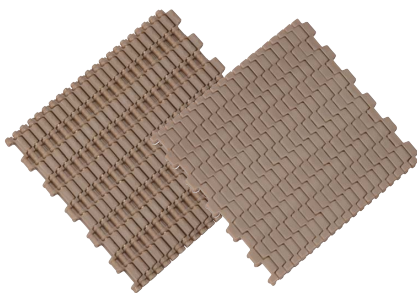


Slit pins (plug-integrated pins)



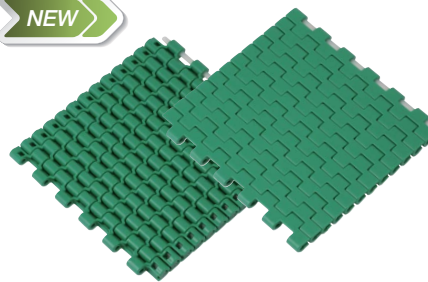
Conveyor belt replacements

Lineup in millimeter-width increments



WT0405-W (4.5 mm pitch)

Min. width of 90 mm can be widened in 45 mm increments



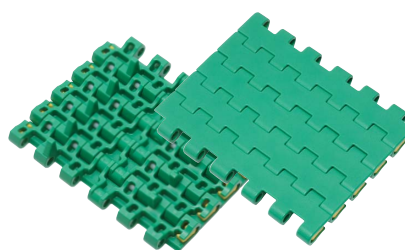
WT0705-W (7.5 mm pitch)

Min. width of 50 mm can be widened in 50 mm increments



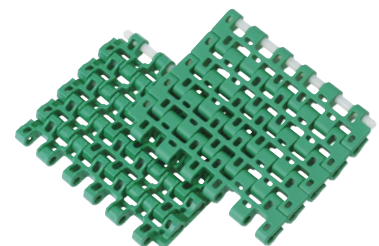
BTC4-M (12.7 mm pitch)

Fixed 50 mm width



WT1515-W (15 mm pitch)

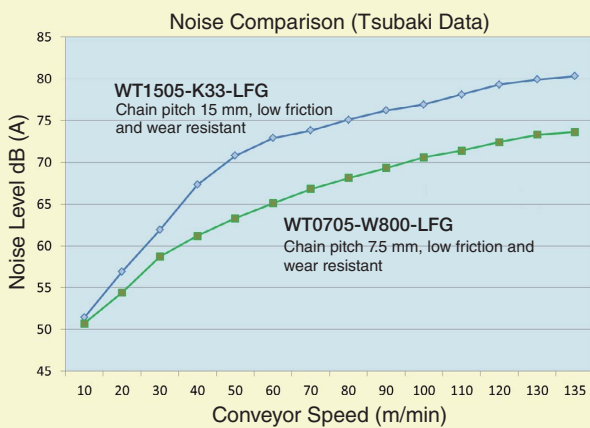
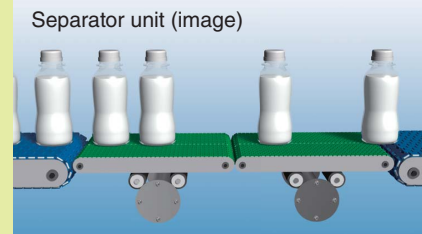
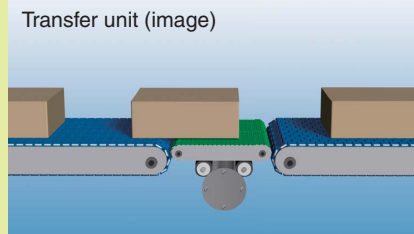
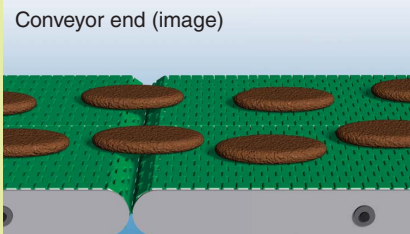
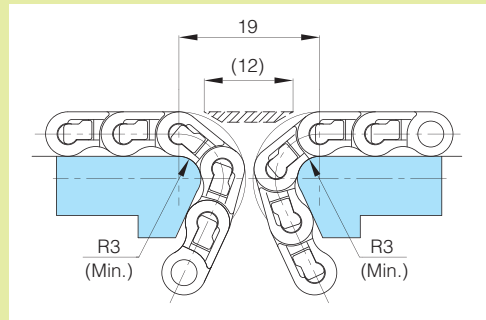
Min. width of 50 mm can be widened in 50 mm increments



WT1516-W (15 mm pitch)

Min. width of 50 mm can be widened in 50 mm increments

- ▶ A nose bar with a minimum radius of 3 mm allows a dead space of 19 mm between conveyors. This makes the WT0705-W ideal for conveying items as small as 30 mm in diameter. It also allows the WT0705-W to be used as a transfer unit between conveyor sections.
- ▶ No need for dead plates, depending on the conveyed items and conveyance conditions.
- ▶ Allows stable conveyance of items that can topple easily.

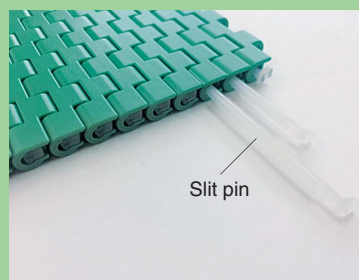


- ▶ A noise comparison test revealed that the WT0705-W is on average 6.5 dB quieter than the 15 mm-pitch chain model.

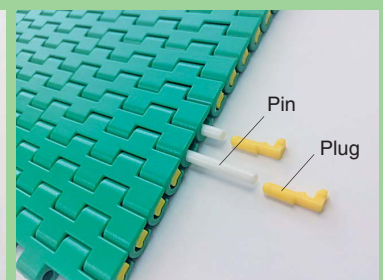
Test Conditions

Chain Type	Conveyor Length mm	Chain Width mm	Drive Section	Driven Section	Wearstrip
WT0705-W800-LFG	500	800	Solid sprocket, 48T, MC Nylon	Roller bearing: UHMW-PE	Antistatic UHMW-PE (black)
WT1505-K33-LFG		838	Solid sprocket, 24T, UHMW-PE		

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



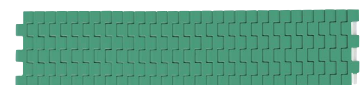
50 mm and 100 mm chains use slit pins



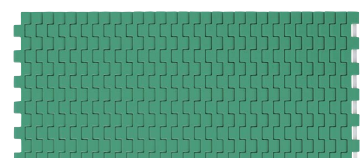
Chains wider than 100 mm use a pin and plug retention system

- ▶ The WT0705-W is available in millimeter-width increments and accommodates 50 mm and 100 mm widths—standard widths for conveyor belts. This makes it easy to replace existing belts with the WT0705-W.
- ▶ Fixed width type: 50 mm, 100 mm
- ▶ Wide type: Can be widened in 50 mm increments starting from 150 mm.

[50 mm]



[100 mm]

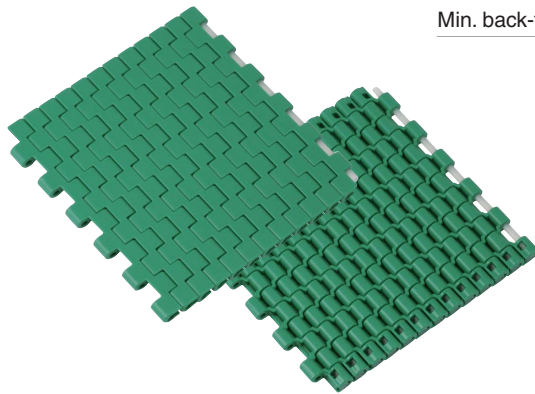


WT0705-W Plastic Modular Chain

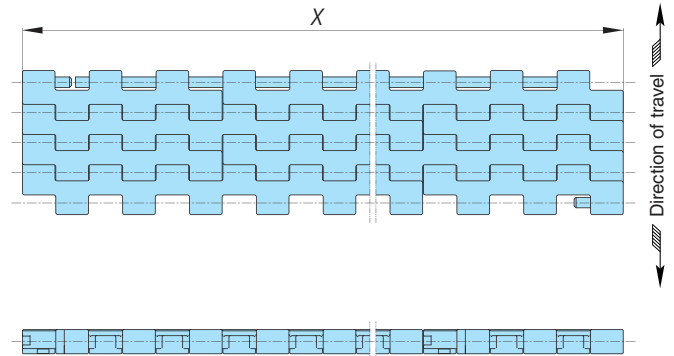
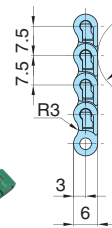
Closed, straight running, wide type



Chain



Min. back-flex radius: R10



Chain Material	Chain Pitch mm	Link Color	Open Area %	Max. Allowable Load kN/m {kgf/m}	Chain Mass kg/m ²	Operating Temperature Range °C	Pin Material	Max. Allowable Speed m/min
LFG	7.5	Green	1	2.5 {255}	5.9	-20 to (60) 80	Special engineering plastic	50 (30)

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

Chain Width X	Low Friction, Wear Resistant LFG	Pin Retention System
	Tsubaki model no.	
50	WT0705-W50-LFG-SP	Slit pin (plug-integrated pin) Plug
100	WT0705-W100-LFG-SP	
150	WT0705-W150-LFG	
200	WT0705-W200-LFG	
250	WT0705-W250-LFG	
300	WT0705-W300-LFG	
350	WT0705-W350-LFG	
400	WT0705-W400-LFG	
450	WT0705-W450-LFG	
500	WT0705-W500-LFG	

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

Model Numbering

Chain type	Chain pitch	Link shape	Chain width	Chain material	Pin retention system
WT	07 07: 7.5mm	05 05: Closed type	W100 W100: 100 mm	LFG LFG: Low friction, wear resistant	SP None: Plug SP: Slit pin (plug-integrated pin)

Note: No space is required between letters and symbols.

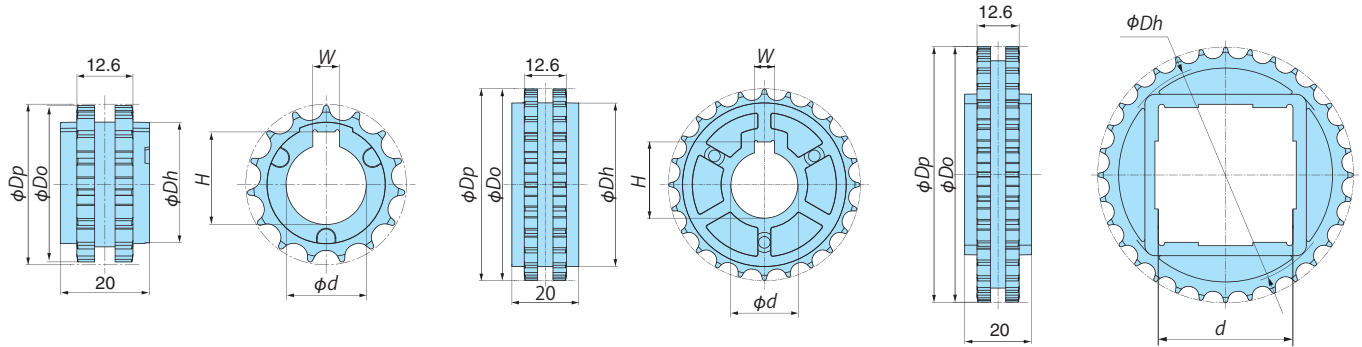
Sprockets

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

WT-N0700-15T18

WT-N0700-24T

WT-N0700-32T40S

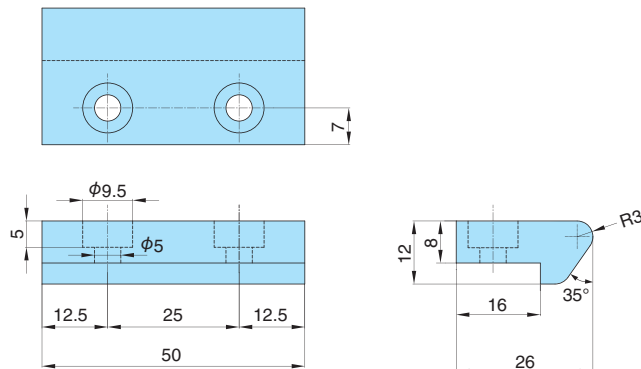


Tsubaki Model No.	Number of Teeth	Pitch Circular Diameter D_p	Sprocket Outer Diameter D_o	Bore Shape	Bore Diameter d	Keyway		Hub Diameter D_h	Approx. Mass kg	Type	Material
						W	H				
WT-N0700-15T18	15	36.07	35.5	Round	$\phi 18$	6	20.8	$\phi 28$	0.010	Solid	Reinforced polyamide (black)
WT-N0700-24T20	24	57.46	57.2	Round	$\phi 20$	6	22.8	$\phi 49$	0.032		
WT-N0700-24T25				Round	$\phi 25$	8	28.3		0.030		
WT-N0700-24T30				Round	$\phi 30$	8	33.3		0.029		
WT-N0700-32T40S	32	76.52	76.4	Square	40	—	—	$\phi 66$	0.045		

- Note: 1. Made-to-order products.
 2. Operating temperature range: -20°C to 80°C
 3. These sprockets are made to fit loosely on the shaft to absorb differences in thermal expansion between the chain and conveyor, and alignment errors between the sprocket and chain.
 4. Sprockets having numbers of teeth other than those above can also be manufactured (machined products).

Nose Bars

● Nose Bars (Exclusively for WT0705-W chain)



Tsubaki Model No.	Material	Material Grade	Color
WT-NB07-W50-10-301	UHMW-PE	10-301	Green
WT-NB07-W50-CNO	Special polyamide	SJ-CNO	Purple

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

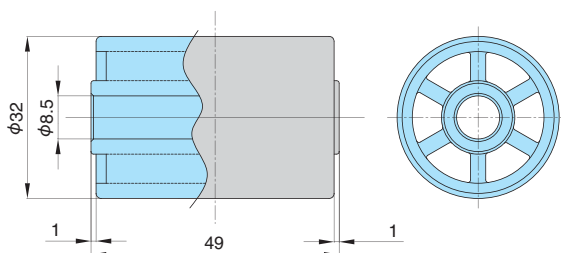
Return Rollers

NEW

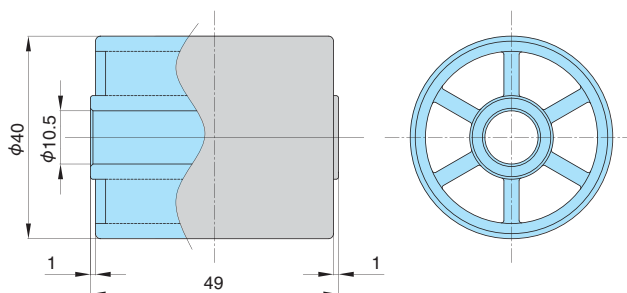
50 mm wide return rollers are available to match the chain's millimeter-width increments.

Return Rollers

TP-RR30850



TP-RR41050



Return Rollers

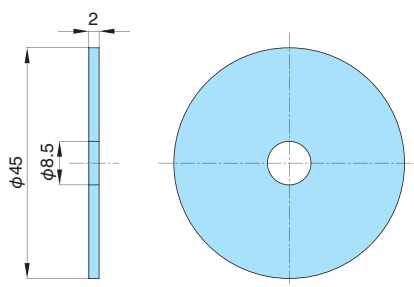
Tsubaki Model No.	Diameter		Width	Material	Corresponding Disc Plate
	Outer Diameter	Inner Diameter			
TP-RR30850	$\phi 32$	$\phi 8.5$	49 mm	Polyamide (black)	TP-DP308
TP-RR41050	$\phi 40$	$\phi 10.5$			TP-DP410

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

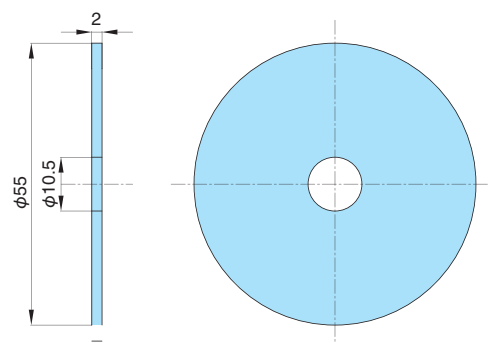
Disc Plates

Disc Plates

TP-DP308



TP-DP410



Disc Plates

Tsubaki Model No.	Diameter		Material	Corresponding Return Roller
	Outer Diameter	Inner Diameter		
TP-DP308	$\phi 45$	$\phi 8.5$	Polyamide (black)	TP-RR30850
TP-DP410	$\phi 55$	$\phi 10.5$		TP-RR41050

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

Plastic Chain Inquiry Sheet

1. Equipment				
2. Conveyed Object	① Conveyed Object			
	② Material	Steel / Aluminum / Paper / Glass / Plastic		
	③ Mass	kg/pc		
	④ Dimensions	(square object)	mm x	mm x height mm
		(round object)	mm diameter x height mm	
	⑤ Shape of Bottom	Flat / Raised / Other		
⑥ Static Electricity	Possibility of damage due to static electricity: Yes / No			
3. Conveyor Arrangement	① Straight Running or Sideflexing	Straight running / Sideflexing (sideflex radius: sideflex angle:)		
	② Conveyor Length	m		
	③ Layout	Sketch the layout in the space below.		
4. Conveying Conditions	① Conveying Speed	m / min		
	② Interval/Spacing between Conveyed Objects, Conveyance Amount	(interval)	mm, (amount) pc/m	
	③ Operating Time	hours/day	hours/year	
	④ Lubrication	None / Yes (soapy water / water/ other)		
	⑤ Accumulation	No / Yes		
	⑥ Wearstrip Material	Steel / Stainless steel / PMW plastic rail / M plastic rail / P plastic rail		
	⑦ Support on Return Way	Rollers / Rail		
	⑧ Impact	No / Yes (description:)		
5. Environment	① Temperature	Normal temperature (-10°C to 40°C) / Other (°C to °C)		
	② Corrosive Conditions (chemicals, disinfectants, detergents, etc.)	Chemicals, etc. (name:)		
		(concentration %, usage frequency times)		
	Water, humidity (%)			
③ Abrasive Conditions	None / Yes (glass fragments / paint chips / metal powder / sand / other)			
④ Other	Volatile gases : None / Yes ()			
6. Chain Number				
7. Sprocket Number	(no. of teeth)			
8. Brief description of equipment and chain: Conveyor layout, shape of conveyed objects, method of support on the return way, and other remarks				

Company Name: _____ Division: _____

Name: _____ Tel.: _____

Date: _____ Fax: _____



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