Idler Conveyor (M Series)

190-220


Steel Idler Conveyor


Stainless Steel Idler Conveyor


Aluminum Idler Conveyor


Resin Idler Conveyor


Tapered Idler Conveyor


Stand for Idler Conveyors

Wheel Conveyor

221-238

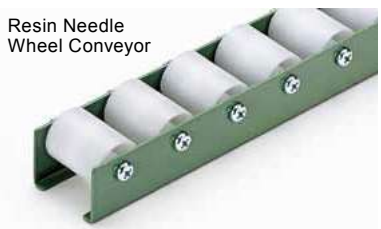

Pressed Wheel Conveyor


Precision-Machined Wheel Conveyor


Stainless Steel Wheel Conveyor


Synthetic Rubber-Wrapped Wheel Conveyor


Resin Wheel Conveyor


Resin Needle Wheel Conveyor

Reference

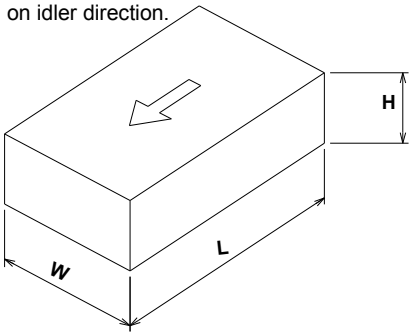
187-189 / 239-243

*Specifications may be changed from those shown in this catalog without advanced notice as improvements are carried out. Thank you for your understanding.
*Please note that the colors used in this catalog may differ slightly from the actual product due to inconsistencies in printing.
*As we use consolidated shipping when delivering items, legs and guides will be sent separately. Also, the conveyor may be sent with part or all of the idlers dismantled, in cases where the unit is excessively heavy or wide. Thank you for your understanding.
*There may also be a slight difference in height between that advertised and the actual conveyor, depending on the clearance of each product part.

1. Items Being Conveyed / Operating Environment

(1) Check conditions of items being conveyed

Even if items are the same, the width (W) and length (L) will vary, depending on idler direction.



- Outer Diameter　Width (W) × Length (L) × Height (H)
- Direction of Flow
- Individual Item Weight
- Shape and Material　Cardboard box, plastic case, wooden box
- Floor Condition　Flat, uneven, protrusions present, flexibility if conveying using pallets
- Amount of Items Being Conveyed
  How many items will be loaded onto the conveyor?
- Method of Loading　How will items be loaded onto the conveyor?
  Loading by hoist, crane, lift, or by hand

(2) Check operating environment

- Temperature　Normal, Low, High
- Humidity, moistness, dust

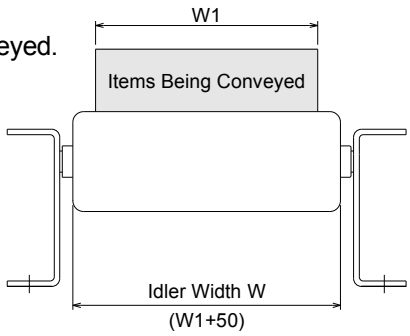
2. Selecting Idler Width

(1) If the conveyor is straight

- Please choose idlers at least 50mm wider than the items being conveyed.

W ≧ W1+50

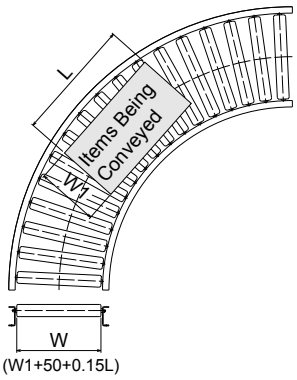
- Conveying items wider than the idlers (overhanging conveyance) is possible if the floor surface is flat and solid.
  Please select idlers that are approx. 70%-80% of the width of the items being conveyed.



(2) If the conveyor is curved

1. If the conveyor is curved with straight idlers
   - The idler width will change depending on the width and length of the items being conveyed.
     When selecting idlers, please add at least 50mm of the item's width to the idler (as with straight conveyance), then add 15% of the item's width to that sum.

W ≧ W1+50+0.15L

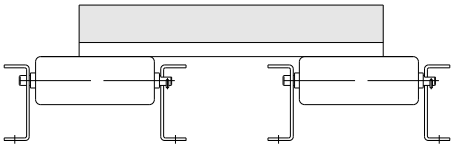


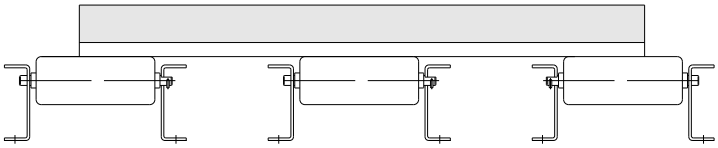
2. If the conveyor uses tapered idlers
   - Follow the guidelines for a straight-line conveyor.

W ≧ W1+50

(3) If conveying pallets

- If conveying heavy items using pallets, we recommend using a multi-row (dual or triple row) conveyor depending on the load-bearing relation.

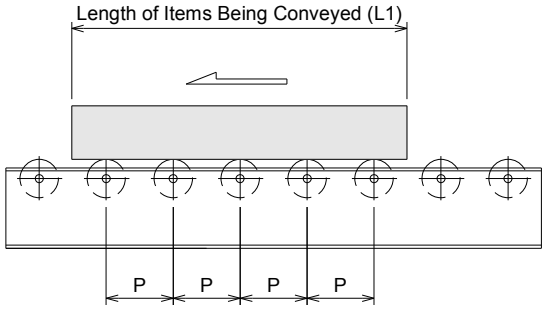




3. Determining the Interval (Pitch) Between Idlers

• Please choose an idler pitch (P) that ensures that the base of items being conveyed is supported by at least 4 idlers.

$$P \leqq \frac{\text{Length of items being conveyed (L1)}}{4}$$



• There may be occasions where the base of the item does not come into contact with an idler, depending on how accurately the idlers and frame have been finished, as well as the condition of the item's base. Please take care when selecting the pitch and strength of the idlers.

4. Selecting a Model

The strength required from each individual idler varies depending on the base material of the items being conveyed, as well as the impact load when loading.

(1) Calculating the load carried by one idler

(A) If the base of the items being conveyed is hard and does not change shape (metal, plastic, etc.)

$$\text{Load on one idler} = \frac{\text{Weight of one item being conveyed}}{2}$$

(B) If the base of the items being conveyed is soft (wood, cardboard, rubber, etc.)

$$\text{Load on one idler} = \frac{\text{Weight of one item being conveyed}}{\text{(Number of idlers supporting an item being conveyed) -1}}$$

(2) Impact load when loading conveyor

If there is impact when loading, please multiply the load supported by one idler by the coefficient (N) written below.

Loading Impact	Example of Impact	Coefficient (N)
No Impact	Conveyance only	1
Weak	Slowly lower by hand	1.5
Medium	Forklift	1.5-2
Strong	Hoist, crane	2-3
	Load by lowering from shoulder-height	3

(A) If the impact is distributed equally across all (at least four) idlers

Impact load on one idler = load carried by one idler x coefficient (N)

(B) If the impact is concentrated on only one idler

Impact load on one idler = weight of items being conveyed x coefficient (N)

(3) If using a dual-row conveyor

It is possible to convey up to 1.5 - 1.8 times more, as the number of idlers supporting the items being conveyed is increased (heavy conveyance using a pallet or similar).

(4) Strength per one idler

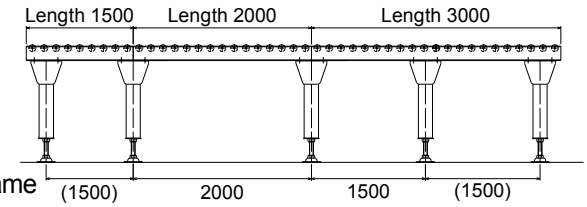
Strength per one idler ≧ load carried by one idler x impact coefficient (N)

Once you have determined the load supported by one idler, please select the most suitable idlers and conveyor by referring to the 'Idler Unit Specification Chart, Standard Strength of One Idler' and 'Idler Conveyor Product Chart, Special Features and Applications'

• Idler Unit Specification Chart (M Series) ····· P192
• Idler Conveyor Product Chart (M Series) ····· P202

5. Setting Up Intervals Between Mounted Stands

(Example of Stand Assembly)



- If the conveyor is mounted to a stand, then the frame's strength must also be taken into consideration.
  If the conveyor is straight, then the standard is one leg at 1,500mm to 2,000mm intervals, whereas if the conveyor is curved, then the standard is one leg in the center of an angle 45 degrees or over.
- Please determine intervals between the mounted stands from the frame strength noted in the chart below, which has converted the weight of items being conveyed into the weight per 1m.

Frame Strength Chart

(Unit: kg/m)

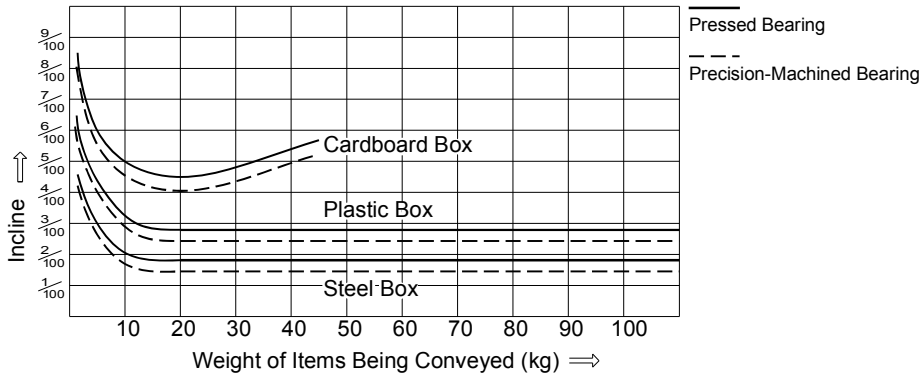
Material	Frame Specifications	Pitch Between Mounted Legs (P)			
		1,000mm	1,500mm	2,000mm	3,000mm
Steel	L20×15×t2.3	10	4	–	–
	[30×15×t2.3	50	20	–	–
	[40×30×t2.3	330	90	30	–
	[60×30×t2.3	500	200	100	30
	L60×30×t3.2	650	260	130	40
	[90×30×t2.3	1,100	500	250	70
	[90×30×t3.2	1,500	700	320	90
	L90×30×t3.2	880	400	200	55
	[90×30×t4.5	2,000	900	420	120
	[100×50×t5.0	4,000	1,200	600	150
	[120×30×t3.2	1,800	800	400	110
Stainless Steel	L20×15×t2.0	8	3	–	–
	[60×30×t2.0	450	180	90	27
	[90×30×t2.0	990	450	230	60
	[90×30×t3.0	1,300	580	300	80
Aluminum	[30×15×t2.0	30	10	–	–
	[60×30×t3.0	250	150	80	20
	[63×25×t2.5/3.5	260	155	83	21
	[90×30×t3.0	500	200	100	30

(Caution)
1. The values above show the strength of an equally distributed load per 1m of one frame set (2 units).
2. Calculations are based on a frame curvature of 1/500.
3. As an example for reference, the value 100kg/m means that a frame [60×30×2.3t (made of steel) with legs mounted at intervals of 2,000mm can withstand an equally distributed load of 100kg×2m=200kg on a conveyor 2m in length.
4. These values do not include the weight of the idlers or shafts.

6. Determining Self-Incline

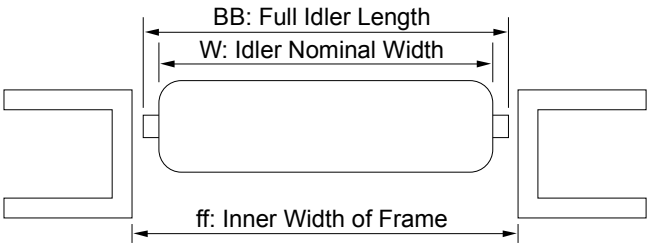
- Installing the idler conveyor at an angle (tilted) will allow items to be conveyed by their own weight. This tilting is called self-incline.
  The degree of incline will vary depending on the weight of the items being conveyed, the condition of the items' base, external air temperature, and level of humidity. While the exact value is difficult to determine, please refer to the chart below for an approximate standard.
- If conveying unusual items, it will be necessary to carry out testing first. Please discuss this with us.
- The degree of incline will also vary depending on which bearing is selected. If an idler has the same outer diameter and shaft diameter, then the degree of incline increases in the following order: precision-machined bearing < pressed bearing < standard bearing.

Self-Incline Standards Chart



Idler Unit Models

Idler Width



To achieve smooth rotation, we recommend that the full idler length (BB: distance between both ends of the bearings or collars) is slightly narrower (1-2mm) than the frame width (ff: width of place where idler is inserted).
*The idler nominal width (W) and actual width may vary slightly so please take care. (Example: W+2→actual width is 2mm longer than nominal width)

Upon placing an order, please let us know the product code, specified dimensions, and quantity required.

Example Order — If ordering by nominal width

Product Code	W: Idler Width	With/Without Shaft	Number of Units
R-3812P	100W	With shaft	One Unit

*If an idler unit has a shaft attached, an R pin (part fixing the shaft in place) will be supplied.

Example Order — If ordering by full idler length

Product Code	BB: Full Idler Length	With/Without Shaft	Number of Units
R-3812PD	BB113	Without shaft	One Unit

Idler Unit Model

1) Straight Idler

R - 38 12 P

Bearing Types
Unmarked: Precision-Machined Bearing
P: Pressed Bearing
D: Bearing Used for Irregular Dimensions
NB: Standard Bearing, Integrated Resin Boss
J: Resin Needle Bearing
N: Precision-Machined Bearing/ Low-Cost Type

Thickness of Idler Pipe Wall (t)
10: t1.0 26: t2.6
12: t1.2 38: t3.8
14: t1.4 42: t4.2
23: t2.3 45: t4.5
*Some items may slightly vary in thickness depending on the model.

Idler Outer Diameter (φ)

08: φ8	42: φ42.7	89: φ89.1
12: φ12	48: φ48.6	101: φ101.6
19: φ19.1	50: φ50.8	114: φ114.3
22: φ22.2	57: φ57.2	140: φ139.8
28: φ28.6	60: φ60.5	
38: φ38.1	76: φ76.3	

*Dimensions will vary slightly depending on the pipe material.

Idler Types

R: Steel Idler	JR: Resin Idler
RS: Stainless Steel Idler	RB: Idler with Standard Bearing Inserted
RA: Aluminum Idler	

2) Tapered Idler

R - TC 500A

Shape
Unmarked: Standard Type (refer to chart for dimensions)
A: Smaller Diameter Side φ42.7

Inner R Dimensions (mm)

Unmarked: Inner 900R	700: Inner 700R
	900: Inner 900R
220: Inner 220R	1200: Inner 1200R
320: Inner 320R	1600: Inner 1600R
500: Inner 500R	

Tapered Idler
TC: Standard Model
TCN: Low-Cost Model
TCL: Wide Model
TCR: Rubber-Wrapped

Idler Types
R: Steel Idler
RS: Stainless Steel Idler
RA: Aluminum Idler

Bearings for Idler Conveyors

Pressed Bearing

The outer ring and case are bent into shape from a flat sheet using a pressing machine.
The parts have been tempered and plated.
It is cheap, and is suitable for rotating very light to medium loads.

Precision-Machined Bearing

The outer and inner ring have been precision-machined and tempered from a round steel ring and pipe.
The steel balls come out of contact with each other due to the retainer, leading to superior and quieter rotation when compared to the pressed bearing.
A high-quality product that can handle rotating light to heavy loads.

Differences Between Idler Types

Although the pipe and bearing are joined together, they come in a variety of types. These can be broadly separated into two types: Curled Type and Rivet Type.

Curled Type

The pipe is curled, and a bearing is pressed in.
The idler width comes in 50mm increments due to the mold used.
It costs less than the rivet type to set up.

Rivet Type

A bearing is inserted into the pipe, and both ends are embossed and bent.
This is used for free sized idlers and pipes with a small or large diameter or thick wall, where the curling process cannot be carried out.

Idler Unit Specification Chart

*Please refer to the separate 'Mechanical Parts Catalog' for images and detailed dimensions.

Steel Idler

Idler Diameter	Idler Unit Model	Idler Dimensions			Idler Width				Idler Specifications		Bearing
		Outer Diameter (φ)	Wall Thickness (t)	Shaft Indent (φ)	Full Idler Length BB	Possible Width (W)		Free Size	Material	Surface Treatment	Specifications
						Minimum Width	Maximum Width				
φ19	R-1912P	19.1	1.2	6.2	W +13	40	600	Y	STKM12A	Molten zinc plating	Pressed
φ28	R-2812P	28.6	1.2	8.2	W +13	40	600	Y	STKM12A	Molten zinc plating	Pressed
φ38	R-3812P	38.1	1.2	12.2	W +13	100	1,000	50mm Increm.	STKM11A	Molten zinc plating	Pressed
	R-3812PD	38.1	1.2	12.2	W +13	40	1,200	Y	STKM11A	Molten zinc plating	Pressed
φ48	R-4814P	48.6	1.6	12.2	W+13	100	1,000	50mm. Increm.	STKM	Molten zinc plating	Pressed
φ57	R-5714P	57.2	1.4	12.2	W+13	100	1,000	50mm. Increm.	STKM11A-S	Molten zinc plating	Pressed
	R-5714PD	57.2	1.4	12.2	W+13	50	1,500	Y	STKM11A-S	Molten zinc plating	Pressed
	R-5721	57.2	2.1	12.2	W+13	100	1,000	50mm. Increm.	STKM	Molten zinc plating	Precision-machined
	R-5721D	57.2	2.1	12.2	W+13	50	1,500	Y	STKM	Molten zinc plating	Precision-machined
	R-5723	57.2	2.3	17.2	W+13	100	1,000	50mm. Increm.	STKM	Molten zinc plating	Precision-machined
	R-5723D	57.2	2.3	17.2	W+13	50	1,500	Y	STKM	Molten zinc plating	Precision-machined
φ60	R-6023P	60.5	2.3	12.2	W+13	100	1,000	50mm. Increm.	STKM	Molten zinc plating	Press
	R-6038SB	60.5	3.8	20.0	W+13	50	1,500	Y	SGP50A	Black surface	Meets standards
φ76	R-7642N	76.3	4.2	20.2	W+13	100	1,500	Y	SGP65A	Black surface	Precision-machined

*The thickness of the pipe wall may be up to 12% less, due to JIS standards. *If 'black surface' is noted in the idler surface treatment column, then the idler will not be plated.
*If a 'Y' is noted in the free size column, then it is possible to order the idler in any size, as long as it is within the range of our manufactured sizes. If '50mm Increm.' is noted, then the size can be selected in 50mm increments from the standard minimum width.

Stainless Steel Idler

Idler Diameter	Idler Unit Model	Idler Dimensions			Idler Width				Idler Specifications		Bearing
		Outer Diameter (φ)	Wall Thickness (t)	Shaft Indent (φ)	Full Idler Length BB	Possible Width (W)		Free Size	Material	Surface Treatment	Specifications
						Minimum Width	Maximum Width				
φ19	RS-1912	19.0	1.2	6.2	W +13	40	500	Y	SUS304	#400 Polish	Pressed
φ38	RS-3810-8	38.1	1.0	8.2	W +13	100	600	50mm. Increm.	SUS304	#400 Polish	Pressed
	RS-3810-12	38.1	1.0	12.2	W +13	100	600	50mm. Increm.	SUS304	#400 Polish	Pressed
φ60	ARS-6015	60.5	1.5	12.2	W +13	100	800	Y	SUS304	#400 Polish	Pressed

*The thickness of the pipe wall may be up to 12% less, due to JIS standards.
*If a 'Y' is noted in the free size column, then it is possible to order the idler in any size, as long as it is within the range of our manufactured sizes.
If '50mm Increm.' is noted, then the size can be selected in 50mm increments from the standard minimum width.

Standard Shaft Specifications (*Caution 1)				Standard Strength of One Idler (kg) (*Caution 2)										Special Features & Applications
Shaft Diameter (φ) Nominal (Actual)	Shape	Finish	Material	100W	200W	300W	400W	500W	600W	700W	800W	900W	1,000W	
6 (5.9)	Pipe	Circular/ Crescent-shape	STKM11A	44	21	14	10	8	—	—	—	—	—	Most suitable for light and small items, low-cost, best-selling product
8 (7.85)	Pipe	Circular/ Crescent-shape	STKM11A	50	50	42	31	25	—	—	—	—	—	Most suitable for light and small items, low-cost, best-selling product
12 (11.8)	Pipe	Circular/ Crescent-shape	STKM11A	144	144	94	80	60	48	42	38	35	32	At φ38 it is the most versatile for light to medium loads, low-cost and a best-selling product
12 (11.8)	Pipe	Circular/ Crescent-shape	STKM11A	138	126	82	70	60	45	42	35	32	28	Compatible with R-3812P free size idler
12 (11.8)	Pipe	Circular/ Crescent-shape	STKM11A	175	168	147	109	87	72	62	54	48	43	φ48, suitable for conveying medium loads, low-cost
12 (11.8)	Pipe	Circular/ Crescent-shape	STKM11A	175	168	147	109	87	72	62	54	48	43	At φ57 it is the most versatile for medium loads, low-cost and a best-selling product
12 (11.8)	Pipe	Circular/ Crescent-shape	STKM11A	175	168	147	109	87	72	62	54	48	43	Compatible with R-5714P free size idler
12 (11.8)	Pipe	Circular/ Crescent-shape	STKM11A	180	170	150	110	90	75	65	55	50	45	φ57 with t 2.1 wall thickness, improved impact resistance, high quality
12 (11.8)	Pipe	Circular/ Crescent-shape	STKM11A	180	170	150	110	90	75	65	55	50	45	Compatible with R-5721 free size idler
17 (16.85)	Pipe	Circular/ Crescent-shape	STKM11A	390	360	328	280	224	177	160	132	112	104	φ57, most versatile for heavy loads
17 (16.85)	Pipe	Circular/ Crescent-shape	STKM11A	390	360	328	280	224	177	160	132	112	104	Compatible with R-5723 free size idler
12 (11.8)	Pipe	Circular/ Crescent-shape	STKM11A	180	170	150	110	90	75	65	55	50	45	φ60, most versatile for medium loads, low-cost
20 (19.9)	Circular rod	Circular/ Crescent-shape	SS400	475	475	475	475	475	475	450	420	400	380	φ60 with t 3.8 wall thickness, shaft diameter φ20, suitable for heavy loads
20 (19.9)	Circular rod	Circular/ Crescent-shape	SS400	550	550	550	550	550	550	520	488	456	425	φ76 with t 4.2 wall thickness, shaft diameter φ20, for heavy loads, low-cost

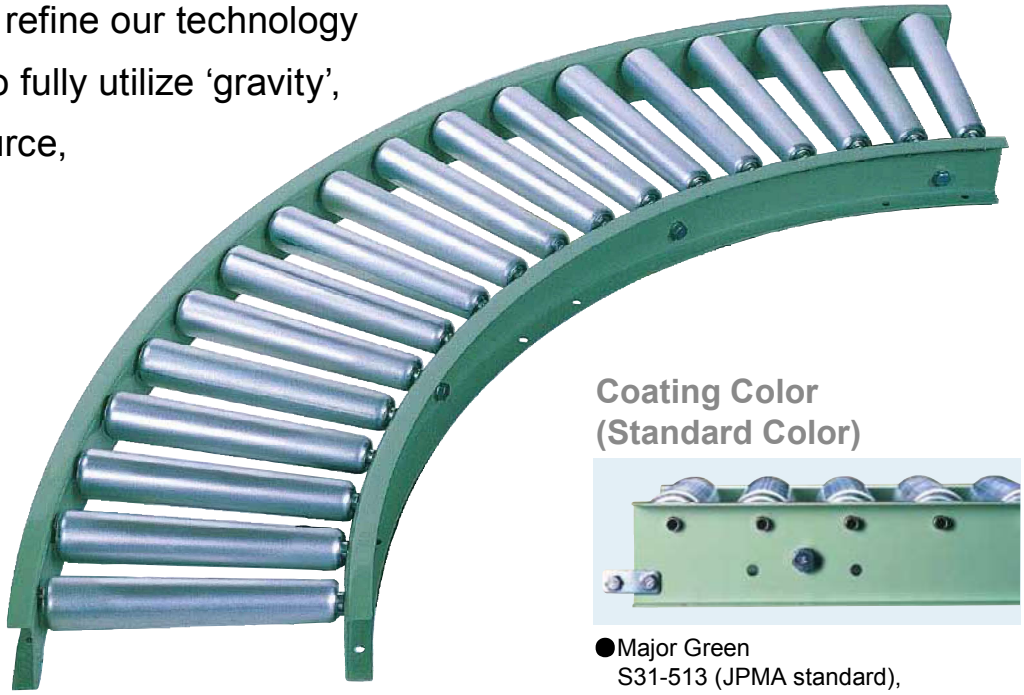
(*Caution 1) Standard shaft specifications refers to specifications if specifying for our company's conveyors. Please take care if you are providing your own shafts. There is no surface treatment on the shaft.
(*Caution 2) Idler strength has been calculated using the standard specifications of our company's standard conveyors and shafts. Please take care if you are providing your own shafts or frame.
The strength changes according to the conditions of use (whether there is impact or not). The values given in the chart are approximate values, and are not guaranteed.

Standard Shaft Specifications (*Caution 1)				Standard Strength of One Idler (kg) (*Caution 2)										Special Features & Applications
Shaft Diameter (φ) Nominal (Actual)	Shape	Finish	Material	100W	200W	300W	400W	500W	600W	700W	800W	900W	1,000W	
6 (5.93)	Circular rod	Circular/ Crescent-shape	SUS304	44	35	23	17	14	—	—	—	—	—	φ19 stainless steel, low cost, most suitable for conveying light and small items
8.0	Pipe	Circular/ Crescent-shape	SUS304	75	70	46	35	28	23	—	—	—	—	φ38 stainless steel, most versatile for light loads, low-cost
12.0	Pipe	Circular/ Crescent-shape	SUS304	85	85	70	65	55	45	—	—	—	—	φ38 stainless steel with φ12 shaft diameter, improved strength
12.0	Pipe	Circular/ Crescent-shape	SUS304	135	120	110	90	70	60	50	45	—	—	φ60 stainless steel, suitable for light to medium loads, low-cost

(*Caution 1) Standard shaft specifications refers to specifications if specifying our company's conveyors. Please take care if you are providing your own shafts.
There is no surface treatment on the shaft. The inner diameter allowable tolerance of standard bearings is negative, so please take care.
(*Caution 2) Idler strength has been calculated using the standard specifications of our company's standard conveyors and shafts. Please take care if you are providing your own shafts or frame.
The strength changes according to the conditions of use (whether there is impact or not). The values given in the chart are approximate values, and are not guaranteed.

Idler Conveyor (M Series)

Makitech continue to refine our technology
day by day in order to fully utilize ‘gravity’,
the green energy source,
to its full potential.



Coating Color (Standard Color)

●Major Green
S31-513 (JPMA standard),
close to Munsell no. 2.5G6/3

*Please note that the colors used in this catalog may differ slightly from the actual product due to inconsistencies in printing. Thank you for your understanding.

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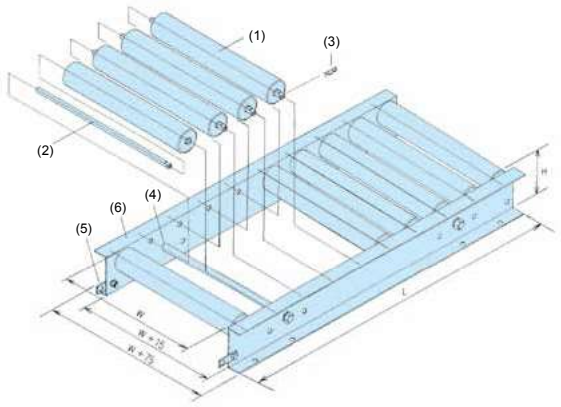
Tapered Idler Conveyor

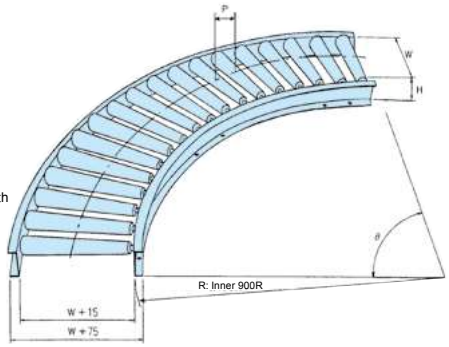
Stand for Idler Conveyors

Conveyor Part Names (M Series)



(1) Idler
(2) Shaft
(3) R Pin
(4) Support
(5) Connector Plate
(6) Frame

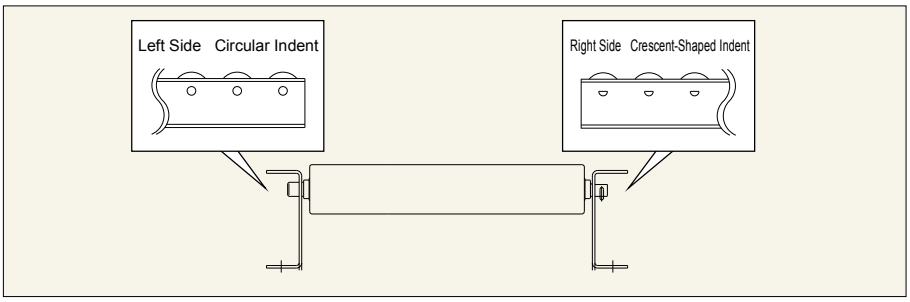
W——Idler Width
W+15 —Frame Inner Width
W+75 —Unit Width
L ——Unit Length
H ——Unit Height
P ——Idler Pitch
R ——Inner R
θ ——Conveyor Angle



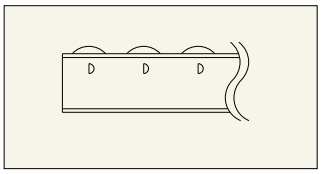
Conveyor Part Dimensions (M Series)

Frame Finish Dimensions

Drilling Shaft Indents

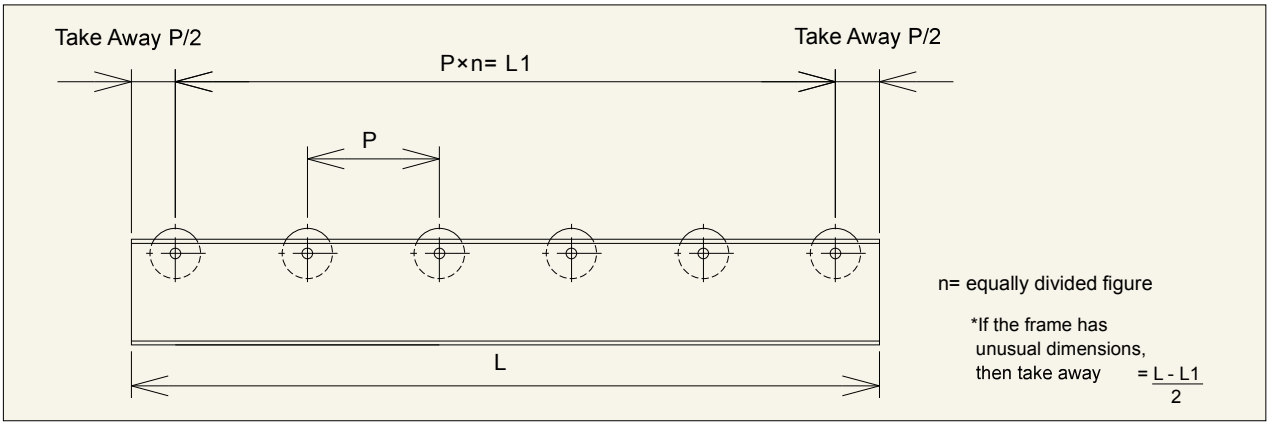


* Caution 1) If the shaft is φ5 with a circular rod double pin, both sides will have a circular indent
2) If the shaft is φ6 or φ8, the crescent will be vertical.



Idler Pitch (P)

(Unit mm)



n= equally divided figure

*If the frame has unusual dimensions, then take away $= \frac{L - L1}{2}$

Average Pitch

If connecting conveyors where the unit length L cannot be divided by the intervals between each idler (nominal pitch), then the interval will become wider. For that reason, the standard pitch will be as shown in the chart on the right.

*We can also provide types that are compatible with non-standard pitches - please get in touch for more information.

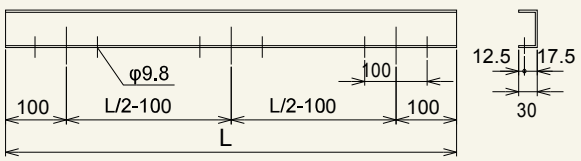
(Unit mm)

Unit Length L	Nominal Pitch	Average Pitch
500	15	15.15
500	30	31.25
1,000	15	15.15
1,000	30	30.3
1,000	75	77
1,000	150	142
1,500	40	40.5
1,500	200	188
2,000	15	15.15
2,000	30	30.3
2,000	75	77
2,000	150	154

*A [90×30×4.5 frame that is 2,000L and 200P will have a pitch of 200.

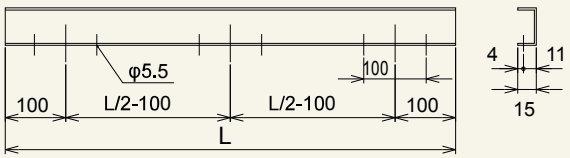
Dimensions of Indents for Leg Attachment

[40×30 [60×30 [90×30



*If the unit length is 1,000 or 1,500, there is no finishing in the center.
*For the heavy-duty model 2FB leg attachment, the indent will be φ12.

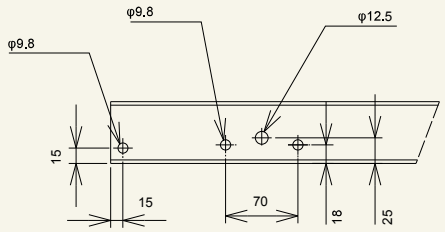
(L20×15) [30×15



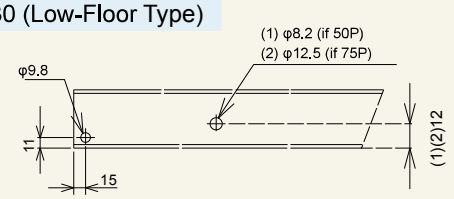
Frame Finish Dimensions

Dimensions of Connector/Support Indents

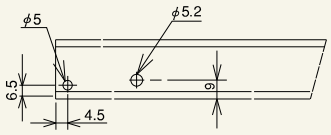
[60×30



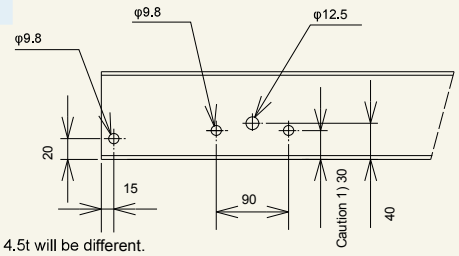
[40×30 (Low-Floor Type)



[30×15

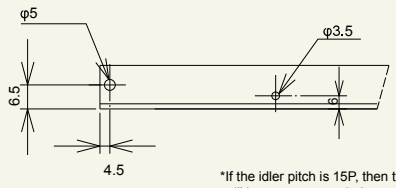


[90×30



*Caution 1) 4.5t will be different.
*If the support is causing interference due to the idler diameter or pitch, the dimensions will be different.

L20×15



*If the idler pitch is 15P, then there will be no connector indents.

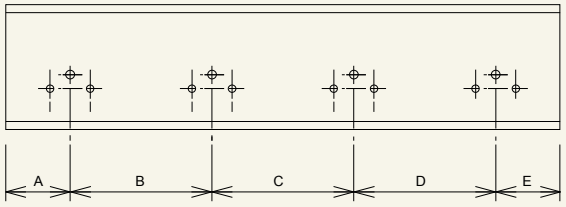
Position of Supports [if 3,000L]

(Unit mm)

Idler Pitch P	A	B	C	D	E
50	150	900	900	900	150
75	150	900	900	900	150
100	200	900	800	900	200
150	150	900	900	900	150
200	200	800	1,000	800	200

[60×30

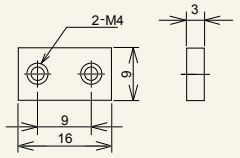
[90×30



Connector Plate (optional extra) *Please let us know if you will be connecting conveyors together.

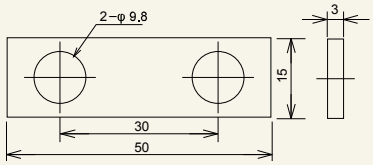
(Unit mm)

Used with L20×15 frame



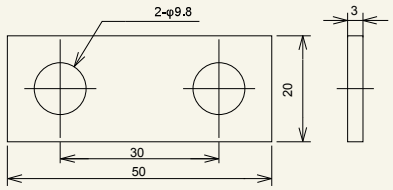
(Bolt: Cap M4×8L)

Used with [40×30 frame



(Bolt: Hexagonal M8×20L)

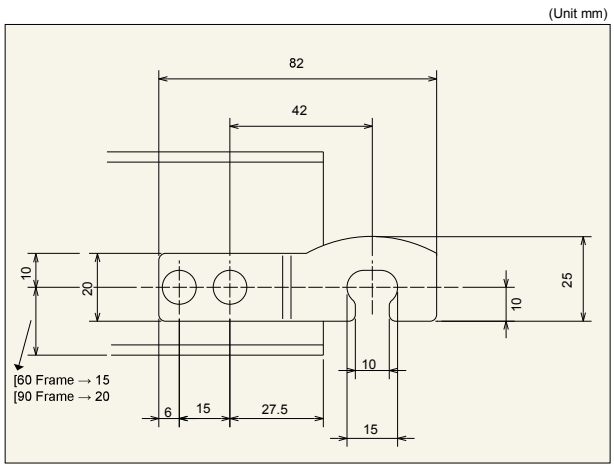
Used with [90×30, [60×30 frame



(Bolt: Hexagonal M8×20L)

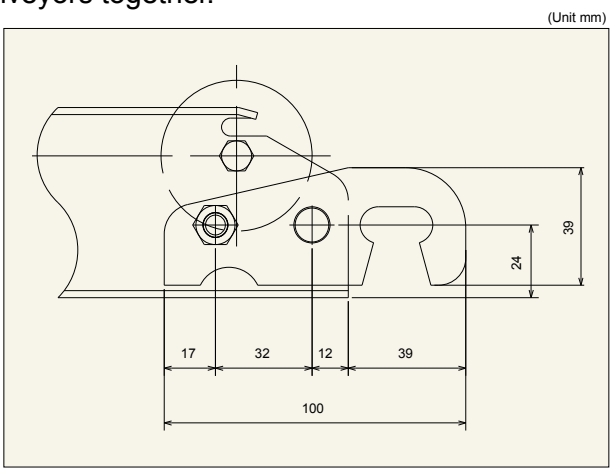
Connector Hook (optional extra) *Please let us know if you will be connecting conveyors together.

(Unit mm)



Compatible Models: RA-2816/RA-3816/RA-4515/JR-3823

(Unit mm)



Compatible Model: RAF-4515

Support

Specifications

Material	Frame Dimensions	Remarks	Support Specifications			Specified Bolt
			Shape	Length	Finish	
Steel	L20×15×t2.3		φ5 Circular rod (plated)	W+15	Both ends M3×10	Cap M3×8L
	[30×15×t2.3		φ8 Circular rod (plated)	W+15	Both ends M5×12	Cap M5×10L
	[24×20×t1.6 (drop-down)		φ8 Circular rod (plated)	W+4	Both ends M5×12	Cap M5×10L
	[34×20×t1.6 (drop-down)		φ8 Circular rod (plated)	W+10	Both ends M5×12	Cap M5×10L
	[40×30×t2.3	If 45P	φ8 Circular rod (plated)	W+15	Both ends M5×12	Cap M5×10L
		If 50P	φ12 Circular rod (plated)	W+45	Both ends screw cut M8×15	
		If 75P or over	φ17.3 Pipe (plated)	W+15	Both ends M12×20	Cap M12×20L
	L60×30×t3.2		φ17.3 Pipe (plated)	W+15	Both ends M12×20	Hexagonal M12×20L
	L90×30×t3.2		φ17.3 Pipe (plated)	W+15	Both ends M12×20	Hexagonal M12×20L
	[60×30×t2.3	If the idler width is under 549W	φ17.3 Pipe (plated)	W+15	Both ends M12×20	Hexagonal M12×20L
		If the idler width is 550W or over	L3×30 Angled (coating) *1	W+15	Both ends FB3×32×100L	Hexagonal M8×20L
	[90×30×t2.3	If the idler width is under 549W	φ17.3 Pipe (plated)	W+15	Both ends M12×20	Hexagonal M12×20L
		If the idler width is 550W or over	L3×40 Angled (coating) *1	W+15	Both ends FB4.5×38×120L	Hexagonal M8×20L
		Dual-use Frame/Guide	φ17.3 Pipe (plated)	W+15	Both ends M12×20	M12×20L
	[90×30×t3.2	Shaft diam. φ12, idler width under 549W	φ17.3 Pipe (plated)	W+15	Both ends M12×20	Hexagonal M12×20L
		Shaft diam. φ12, idler width over 550W	L3×40 Angled (coating) *1	W+15	Both ends FB4.5×38×120L	Hexagonal M8×20L
		Shaft diam. φ13 or over, idler width under 199W	φ17.3 Pipe (plated)	W+15	Both ends M12×20	Hexagonal M12×20L
		Shaft diam. φ13 or over, idler width over 200W	L3×40 Angled (coating) *1	W+15	Both ends FB4.5×38×120L	Hexagonal M8×20L
		Tapered idler	φ17.3 Pipe (plated)	W+15	Both ends M12×20	Hexagonal M12×20L
	[90×30×t4.5 *3	If the idler width is under 199W	φ17.3 Pipe (plated)	W+15	Both ends M12×20	Hexagonal M12×20L
		If the idler width is 200W or over	L3×40 Angled (coating) *1	W+15	Both ends FB4.5×38×120L	Hexagonal M8×20L
		If the idler diameter is over φ76	φ17.3 Pipe (plated)	W+15	Both ends M12×20	Hexagonal M12×20L
	[100×50×t5.0	Pipe support for vertical second layer	φ17.3 Pipe (plated)	W+15	Both ends M12×20	Hexagonal M12×25L
	[120×30×t3.2	Dual-use Frame/Guide	φ17.3 Pipe (plated)	W+15	Both ends M12×20	Hexagonal M12×20L
Stainless Steel	L20×15×t2.0		φ5 Circular rod (SUS)	W+15	Both ends M3×10	Cap M3×8L
	[60×30×t2.0	If the idler width is under 549W	φ17.3 Pipe (SUS)	W+15	Both ends M12×20	Hexagonal M12×20L
		If the idler width is 550W or over	L3×30 Angled (SUS) *1	W+15	Both ends FB3×30×100L	Hexagonal M8×20L
	[90×30×t2.0	If the idler width is under 549W	φ17.3 Pipe (SUS)	W+15	Both ends M12×20	Hexagonal M12×20L
		If the idler width is 550W or over	L3×30 Angled (SUS) *1	W+15	Both ends FB3×32×120L	Hexagonal M8×20L
	[90×30×t3.0	Tapered idler	φ17.3 Pipe (SUS)	W+15	Both ends M12×20	Hexagonal M12×20L
Aluminum	[30×15×t2.0		φ8 Circular rod (plated)	W+15	Both ends M5×12	Cap M5×10L
	[44×18×t2.0		φ17.3 Pipe (SUS)	W+15	Both ends M12×20	Cap M12×20L
	[60×30×t3.0		φ17.3 Pipe (plated) *2	W+15	Both ends M12×20	Hexagonal M12×20L
	[63×25×t2.5/3.5		Conical support (aluminum)	W+7		
	[90×30×t3.0		φ17.3 Pipe (plated) *2	W+15	Both ends M12×20	Hexagonal M12×20L

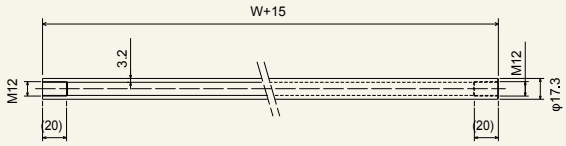
*1. For some models the pipe support will be φ17.3. All units shorter than 500 will have pipe supports *2. The JR model is SUS
*3. R-6038SB and R-7642SB have the same specifications as the RZ Series (refer to page 31)

Number of Supports

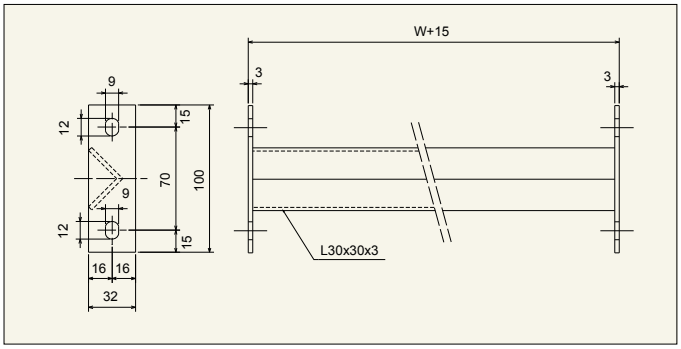
Shape	Conveyor Length (L)	Number of Supports
φ17.3 Pipe support L3×30 Angled support L3×40 Angled support φ12 Circular rod support	Below 1,500	Two units
	From 1,500 to 2,400	Three units
	2,400 to 3,000	Four units
φ5 Circular rod support φ8 Circular rod support	Below 300	Two units
	From 300 to 1,000	Three units
	From 1,000 to 1,500	Four units
	From 1,500 to 1,800	Five units
	From 1,800 to 2,000	Six units
	From 2,000 to 2,500	Seven units
	From 2,500 to 3,000	Eight units
	3,000	Ten units

(Unit mm)

φ17.3 pipe support

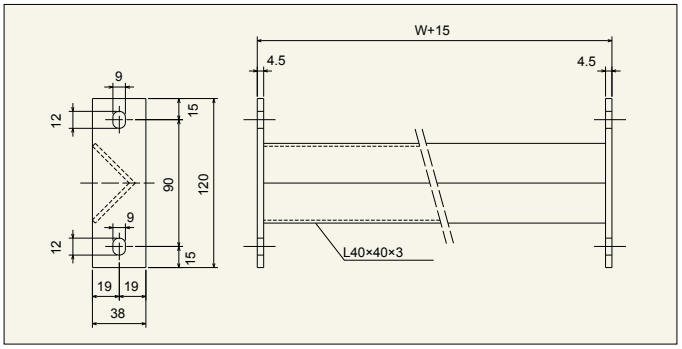


Steel, used with [60 frame



Steel, used with [90 frame

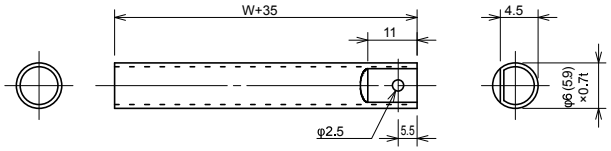
(Unit mm)



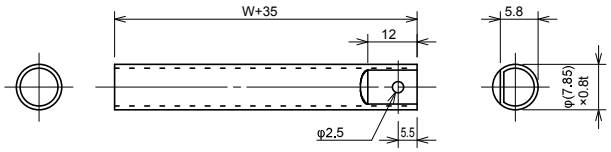
Shaft Shapes

(Unit mm)

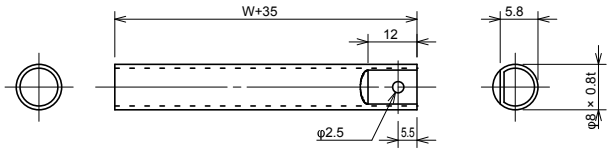
■φ6 Pipe/Steel



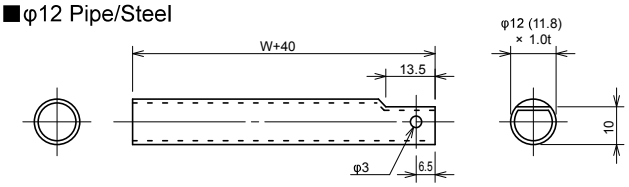
■φ8 Pipe/Steel



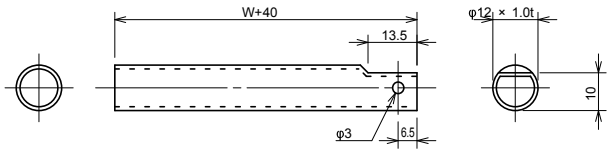
■φ8 Pipe/Stainless steel



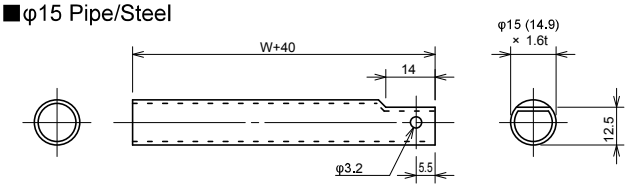
■φ12 Pipe/Steel



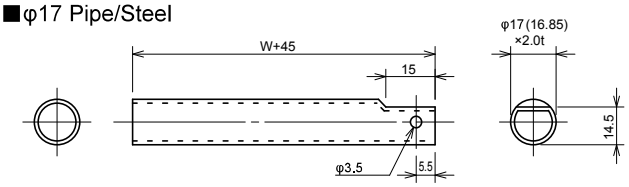
■φ12 Pipe/Stainless steel



■φ15 Pipe/Steel



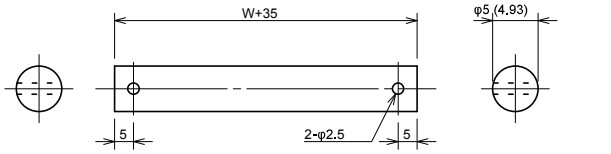
■φ17 Pipe/Steel



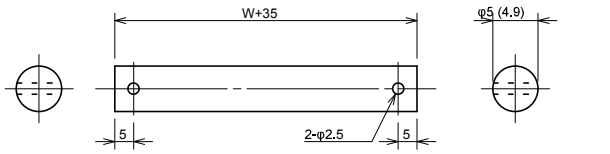
Allowable Tolerance in Usual Dimensions of Bending or Contracting of Pressed Metal Items
(JIS B 0408) (Unit: mm)

Standard Dimensions Classification	Grade		
	Grade A	Grade B	Grade C
Below 6	±0.1	±0.3	±0.5
Above 6 and below 30	±0.2	±0.5	±1
Above 30 and below 120	±0.3	±0.8	±1.5
Above 120 and below 400	±0.5	±1.2	±2.5
Above 400 and below 1000	±0.8	±2	±4
Above 1000 and below 2000	±1.2	±3	±6

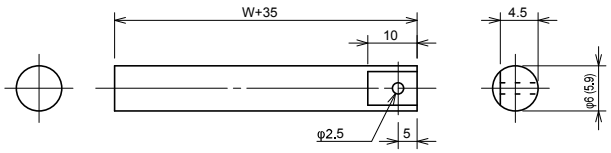
■φ5 Circular rod/Steel



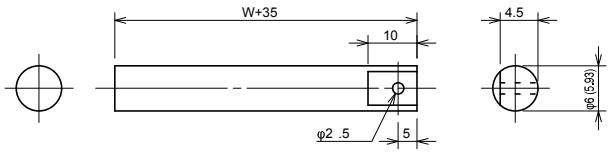
■φ5 Circular rod/Stainless steel



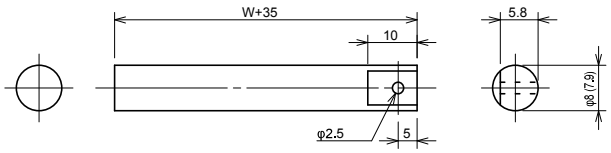
■φ6 Circular rod/Steel



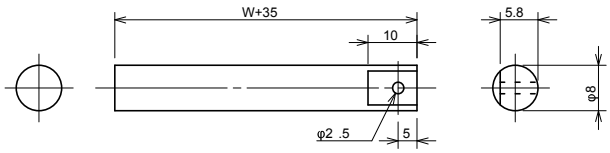
■φ6 Circular rod/Stainless steel



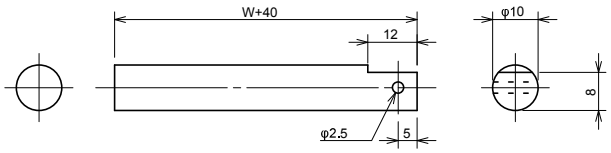
■φ8 Circular rod/Steel



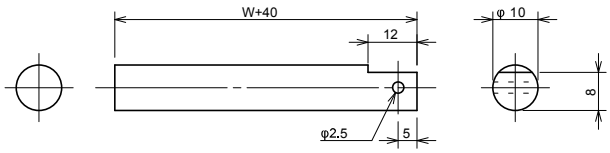
■φ8 Circular rod/Stainless steel



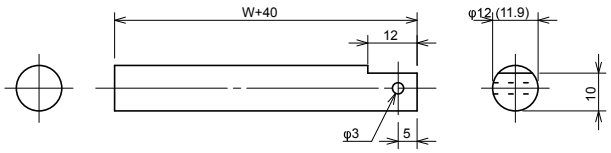
■φ10 Circular rod/Steel



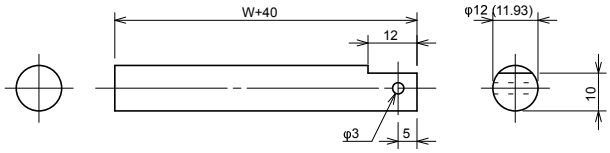
■φ10 Circular rod/Stainless steel



■φ12 Circular rod/Steel

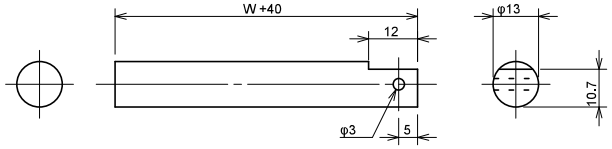


■φ12 Circular rod/Stainless steel

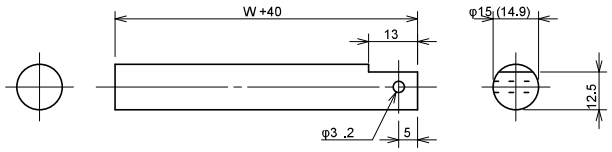


(Unit mm)

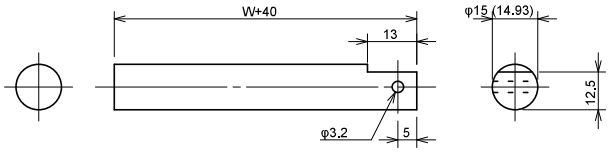
■φ13 Circular rod/Steel



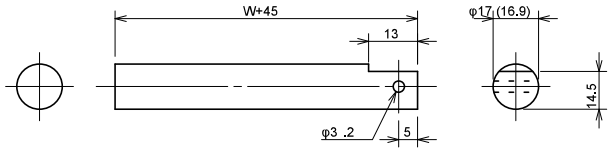
■φ15 Circular rod/Steel



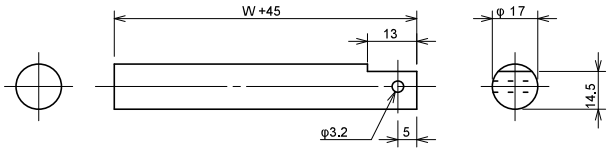
■φ15 Circular rod/Stainless steel



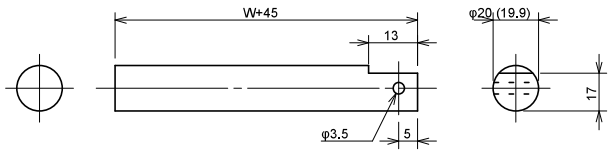
■φ17 Circular rod/Steel



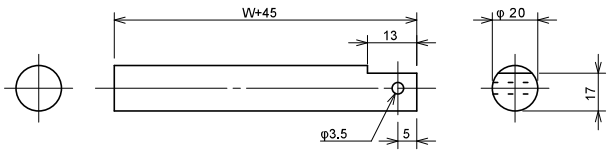
■φ17 Circular rod/Stainless steel



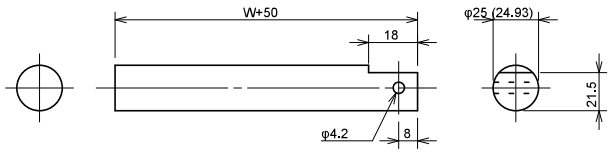
■φ20 Circular rod/Steel



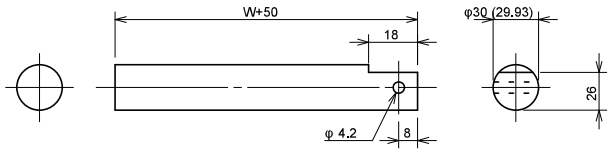
■φ20 Circular rod/Stainless steel



■φ25 Circular rod/Steel

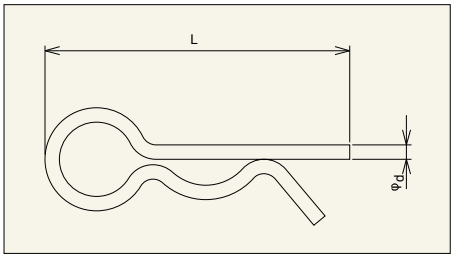


■φ30 Circular rod/Steel



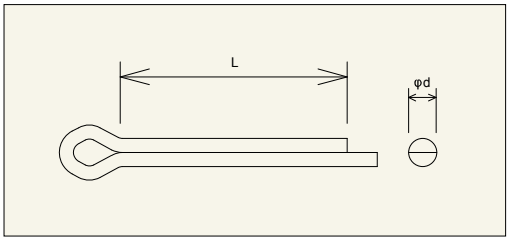
Pin Shapes

Shape of R pin



Shaft Diameter	●Steel		●Stainless Steel		Remarks
	L	φd	L	φd	
φ5	21.5	1.2	21.5	1.2	A wire stopper will be attached if it is an (assembled load) conveyor
φ6	21.5	1.2	21.5	1.2	A wire stopper will be attached if the idler pitch is below 50P
φ8	28.8	1.6	29	1.6	A wire stopper will be attached if the idler pitch is below 50P
φ10	37.7	2.0	–	–	
φ12	37.7	2.0	38	1.8	
φ13	37.7	2.0	–	–	
φ15	52.8	2.6	43.6	2.0	
φ17	52.8	2.6	43.6	2.0	
φ20	60.8	2.9	–	–	

Shape of divider pin



Shaft Diameter	L	φd
φ25	50	φ3.7
φ30	50	φ3.7

Change! Change!! Change!!!

A Revolution in the 40th Year of our Gravity Idler Conveyor

RZ Series with New Specifications Now on Sale

RZ-3812P
+
Stand Model 2Z

RZ-5714P
+
Stand Model AL-2B

MAKITECH

Idler Conveyor Models

Idler Conveyor Model

1) Straight Idler

R – 38 12 PE

Frame Shape
Unmarked: Refer to Catalog
A: L20×15 E: L-Shaped Frame
B: [30×15 G: [Dual-Use Frame/Guide
L: [40×30 F: [Flat Frame

Bearing Types
Unmarked: Precision-Machined Bearing
P: Pressed Bearing
D: Bearing used for Irregular Dimensions
NB: Standard Bearing, Integrated Resin Boss
J: Resin Needle Bearing
N: Precision-Machined Bearing / Low Cost

Idler Outer Diameter (φ)
08: φ8 50: φ50.8
12: φ12 57: φ57.2
19: φ19.1 60: φ60.5
22: φ22.2 76: φ76.3
28: φ28.6 89: φ89.1
38: φ38.1 101: φ101.6
42: φ42.7 114: φ114.3
48: φ48.6 140: φ139.8
*Dimensions will vary slightly depending on the pipe material.

Thickness of Idler Pipe Wall (t)
10: t1.0 26: t2.6
23: t1.2 38: t3.8
14: t1.4 42: t4.2
23: t2.3 45: t4.5
*Some items may slightly vary in thickness depending on the model.

Idler Types
RZ: Brand New Steel Idler, ZAM Frame (anti-corrosive molten plated steel sheet)
R: Steel Idler JR: Resin Idler
RS: Stainless Steel Idler RB: Idler with Standard Bearings Inserted
RA: Aluminum Idler RH: Drop-Down Type Idler Conveyor

2) Tapered Idler

R – TC 500 A

Shape
Unmarked: Standard Type (refer to chart for dimensions)
A: Smaller Diameter Side φ42.7

Inner R Dimensions (mm)
Unmarked: Inner 900R
220: Inner 220R
320: Inner 320R
500: Inner 500R
700: Inner 700R
900: Inner 900R
1,200: Inner 1200R
1,600: Inner 1600R

Idler Types
R: Steel Idler
RS: Stainless Steel Idler
RA: Aluminum Idler

Tapered Idler
TC: Standard Model
TCN: Cheaper Model
TCL: Wide Model
TCR: Rubber-Wrapped

Idler Conveyor Specification Chart

Steel Idler Conveyor

Load	Idler Diameter	Page Listed	Idler Conveyor Model	Idler Unit Model (*Repair Part Name)	Idler Specifications					Idler Width		Standard Shaft Specifications			
					Outer Diameter (φ)	Wall Thickness (t)	Shaft Indent (φ)	With/ Without Surface Plating	Bearing	Standard Idler Width (Nominal) W	Free Size	Shaft Diameter (φ) Nominal (Actual)	Shape	Finish	With/ Without Surface Plating
Very Light	φ19	56	R-1912P	R-1912P	19.1	1.2	6.2	Y	Pressed	100 - 500	Y	6 (5.9)	Pipe	Crescent-shape	X
		77	R-1912PA	R-1912P	19.1	1.2	6.2	Y	Pressed	100 - 500	Y	6 (5.9)	Pipe	Crescent-shape	X
		74	R-1912PB	R-1912P	19.1	1.2	6.2	Y	Pressed	100 - 500	Y	6 (5.9)	Pipe	Crescent-shape	X
Light	φ28	57	R-2812P	R-2812P	28.6	1.2	8.2	Y	Pressed	100 - 500	Y	8 (7.85)	Pipe	Crescent-shape	X
		74	R-2812PB	R-2812P	28.6	1.2	8.2	Y	Pressed	100 - 500	Y	8 (7.85)	Pipe	Crescent-shape	X
		75	R-2812PL	R-2812P	28.6	1.2	8.2	Y	Pressed	100 - 500	Y	8 (7.85)	Pipe	Crescent-shape	X
		89	R-2812PG	R-2812P	28.6	1.2	8.2	Y	Pressed	100 - 500	Y	8 (7.85)	Pipe	Crescent-shape	X
Light to Medium	φ 38	58	R-3812P	R-3812P	38.1	1.2	12.2	Y	Pressed	100 - 1,000	50mm Increm.	12 (11.8)	Pipe	Crescent-shape	X
		77	R-3812PE	R-3812P	38.1	1.2	12.2	Y	Pressed	100 - 1,000	50mm Increm.	12 (11.8)	Pipe	Crescent-shape	X
		75	R-3812PL	R-3812P	38.1	1.2	12.2	Y	Pressed	100 - 1,000	50mm Increm.	12 (11.8)	Pipe	Crescent-shape	X
		89	R-3812PG	R-3812P	38.1	1.2	12.2	Y	Pressed	100 - 1,000	50mm Increm.	12 (11.8)	Pipe	Crescent-shape	X
		59	R-3812PD	R-3812PD	38.1	1.2	12.2	Y	Pressed	100 - 1,000	Y	12 (11.8)	Pipe	Crescent-shape	X
Medium	φ 48	61	R-4814P	R-4814P	48.6	1.6	12.2	Y	Pressed	100 - 1,000	50mm Increm.	12 (11.8)	Pipe	Crescent-shape	X
		76	R-4814PL	R-4814P	48.6	1.6	12.2	Y	Pressed	100 - 1,000	50mm Increm.	12 (11.8)	Pipe	Crescent-shape	X
	φ 57	63	R-5714P	R-5714P	57.2	1.4	12.2	Y	Pressed	100 - 1,000	50mm Increm.	12 (11.8)	Pipe	Crescent-shape	X
		78	R-5714PE	R-5714P	57.2	1.4	12.2	Y	Pressed	100 - 1,000	50mm Increm.	12 (11.8)	Pipe	Crescent-shape	X
		89	R-5714PG	R-5714P	57.2	1.4	12.2	Y	Pressed	100 - 1,000	50mm Increm.	12 (11.8)	Pipe	Crescent-shape	X
		64	R-5714PD	R-5714PD	57.2	1.4	12.2	Y	Pressed	100 - 1,000	Y	12 (11.8)	Pipe	Crescent-shape	X
		65	R-5721	R-5721	57.2	2.1	12.2	Y	Precision-machined	100 - 1,000	50mm Increm.	12 (11.8)	Pipe	Crescent-shape	X
		66	R-5721D	R-5721D	57.2	2.1	12.2	Y	Precision-machined	100 - 1,000	Y	12 (11.8)	Pipe	Crescent-shape	X
Heavy		66	R-5723	R-5723	57.2	2.3	17.2	Y	Precision-machined	100 - 1,000	50mm Increm.	17 (16.85)	Pipe	Crescent-shape	X

*The thickness of the pipe wall may be up to 12% less, due to JIS standards.
*If a 'Y' is noted in the free size column, then it is possible to order the idler in any size, as long as it is within the range of our manufactured sizes.
If '50mm Increm.' is noted, then the size can be selected in 50mm increments from the standard minimum width.

Upon placing an order, please let us know the product code, specified dimensions, coating color, and quantity required.

Example Order — If the conveyor is straight

Product Code	L: Unit Length		W: Idler Width		P: Idler Pitch	With/Without Connector	Coating Color	Number of Units
R-3812P	3,000L	X	500W	X	50P	Connector Fittings	Standard Color	One Unit

Example Order — If the conveyor is curved

Product Code	R: Curve Inner R		W: Idler Width		P: Idler Pitch		Θ: Angle of Curve	With/Without Connector	Coating Color	Number of Units
R-3812P	Inner 900R	X	500W	X	50P	X	90°	Connector Fittings	Standard Color	One Unit

*Caution Please take care if the conveyor is curved as the idler interval (P) will be equivalent to each idler pitch.

Example Order — In the case of individual idlers

Product Code	W: Idler Width	With/Without Shaft	Number of Units
R-3812P	100W	With Shaft	One Unit

■Remarks

- The standard color is JPMA standard previous color code S31-513 (similar to the Munsell international color code 2.5G6/3).
- If you wish to specify the color, please advise us of the JPMA color code (if you specify a Munsell international color code, the color will be very close).
- We can manufacture conveyors in non-standard lengths and/or with non-standard idler pitches, so please get in touch for more information.
- Angle of curve: θ90° is standard, 60°, 45°, and 30° are also possible.
- If an idler unit has a shaft attached, an R pin (part fixing the shaft in place) will be supplied.
- Single purpose free idler.

Standard Load

We have added the standard load, rather than idler strength, to the 'Load' column within the idler conveyor product chart.
We are basing the idler strength on an idler with a nominal width of 300W.

*kgf=N×0.101972

Load	Very Light	Light	Light to Medium	Medium	Medium to Heavy	Heavy	Very Heavy
N (Newtons)	Below 300N	Below 600N	Below 1,200N	Below 2,400N	Below 3,000N	Below 9,000N	Above 9,000N
kgf	Below 30kgf	Below 65kgf	Below 122kgf	Below 244kgf	Below 305kgf	Below 917kgf	Above 917kgf

(Unit mm)

Frame Specifications			Manufactured Range of Standard Lengths						Standard Idler Pitch	Unit Height	Special Features & Applications
Height x Width x Wall Thickness	Material	Surface Treatment	L					R900 Inner Curve	Pitch P (*Caution 1)	(Idler Upper Surface) H	
I x K x t			500	1,000	1,500	2,000	3,000				
[60×30×2.3	Steel	Coating	–	Y	Y	Y	Y	Y	20 / 25 / 30	61.5	Idler diameter of φ19, most suitable for conveying light and small items, low-cost, best-selling product
L20×15×2.3	Steel	Coating	–	Y	Y	X	X	X	20 / 25 / 30	25	Idler diameter of φ19, most suitable for conveying light and small items, low-cost, L-shaped frame
[30×15×2.3	Steel	Coating	–	Y	Y	Y	X	X	20 / 25 / 30	31	Idler diameter of φ19, most suitable for conveying light and small items, low-cost, [30 low-floor frame
[60×30×2.3	Steel	Coating	–	Y	Y	Y	Y	Y	30 / 40 / 50 / 75	66	Idler diameter of φ28, most suitable for conveying light and small items, low-cost, best-selling product
[30×15×2.3	Steel	Coating	–	Y	Y	Y	X	X	40 / 50 / 75	31	Idler diameter of φ28, most suitable for conveying light and small items, low-cost, [30 low-floor frame
[40×30×2.3	Steel	Coating	–	Y	Y	Y	Y	Y	30 / 40 / 50 / 75	46	Idler diameter of φ28, most suitable for conveying light and small items, low-cost, [40 low-floor frame
[90×30×2.3	Steel	Coating	–	Y	Y	Y	Y	Y	30 / 40 / 50 / 75	52	Idler diameter of φ28, dual-use frame/guide
[60×30×2.3	Steel	Coating	–	Y	Y	Y	Y	Y	50 / 75 / 100 / 150	67	At φ38 it is the most versatile for light to medium loads, low-cost and a best-selling product
L60×30×3.2	Steel	Coating	–	Y	Y	Y	Y	X	50 / 75 / 100 / 150	67	Idler diameter of φ38, low-cost, L-shaped frame
[40×30×2.3	Steel	Coating	–	Y	Y	Y	Y	Y	50 / 75 / 100 / 150	47	Idler diameter of φ38, low-cost, [40 low-floor frame
[90×30×2.3	Steel	Coating	–	Y	Y	Y	Y	Y	50 / 75 / 100 / 150	57	Idler diameter of φ38, dual-use frame/guide
[60×30×2.3	Steel	Coating	–	Y	Y	Y	Y	Y	50 / 75 / 100 / 150	67	Compatible with R-3812P free size idler
[90×30×2.3	Steel	Coating	–	Y	Y	Y	Y	Y	50 / 75 / 100 / 150	95.8	Idler diameter is φ48, suitable for conveying medium loads, low-cost
[40×30×2.3	Steel	Coating	–	Y	Y	Y	Y	Y	50 / 75 / 100 / 150	52	Idler diameter is φ48, suitable for conveying medium loads, low-cost, [40 low-floor frame
[90×30×2.3	Steel	Coating	–	Y	Y	Y	Y	Y	75 / 100 / 150 / 200	100	At φ57 it is the most versatile for medium loads, low-cost and a best-selling product
90×30×3.2	Steel	Coating	–	Y	Y	Y	Y	X	75 / 100 / 150 / 200	100	Idler diameter is φ57, suitable for conveying medium loads, low-cost, L-shaped frame
[120×30×3.2	Steel	Coating	–	Y	Y	Y	Y	Y	75 / 100 / 150 / 200	78.5	Idler diameter is φ57, dual-use frame/guide
[90×30×2.3	Steel	Coating	–	Y	Y	Y	Y	Y	75 / 100 / 150 / 200	100	Compatible with R-5714P free size idler
[90×30×3.2	Steel	Coating	–	Y	Y	Y	Y	Y	75 / 100 / 150 / 200	100	Idler diameter is φ57 with t2.1 wall thickness, improved impact resistance, high quality, precision-machined bearings
[90×30×3.2	Steel	Coating	–	Y	Y	Y	Y	Y	75 / 100 / 150 / 200	100	Compatible with R-5721 free size idler
[90×30×4.5	Steel	Coating	–	Y	Y	Y	Y	Y	75 / 100 / 150 / 200	100	At φ57 it is the most versatile for heavy loads, high quality, precision-machined bearings

(*Caution 1) Please take care as the curve will become equivalent to each pitch. The actual pitch may vary slightly on a straight-line conveyor.
Please refer to 'Conveyor Part Dimensions,Frame Finish Dimensions, Average Pitch'.

Idler Conveyor Specification Chart

Steel Idler Conveyor

Load	Idler Diameter	Page Listed	Idler Conveyor Model	Idler Unit Model (*Repair Part Name)	Idler Specifications					Idler Width		Standard Shaft Specifications			
					Outer Diameter (φ)	Wall Thickness (t)	Shaft Indent (φ)	With/ Without Surface Plating	Bearing	Standard Idler Width (Nominal) W	Free size	Shaft Diameter (φ) Nominal (Actual)	Shape	Finish	With/ Without Surface Plating
Heavy	φ 57	67	R-5723D	R-5723D	57.2	2.3	17.2	Y	Precision-machined	100 - 1,000	Y	17 (16.85)	Pipe	Crescent-shape	X
Medium	φ60	68	R-6023P	R-6023P	60.5	2.3	12.2	Y	Pressed	100 - 1,000	50mm Increm.	12 (11.8)	Pipe	Crescent-shape	X
		89	R-6023PG	R-6023P	60.5	2.3	12.2	Y	Pressed	100 - 1,000	50mm Increm.	12 (11.8)	Pipe	Crescent-shape	X
		71	R-6038SB	R-6038SB	60.5	3.8	20.0	X (Black)	Meets standards	100 - 1,000	Y	20 (19.9)	Circular rod	Crescent-shape	X
Heavy	φ76	72	R-7642N	R-7642N	76.3	4.2	20.2	X (Black)	Precision-machined	100 - 1,000	Y	20 (19.9)	Circular rod	Crescent-shape	X

*The thickness of the pipe wall may be up to 12% less, due to JIS standards.
*If a 'Y' is noted in the free size column, then it is possible to order the idler in any size, as long as it is within the range of our manufactured sizes.
If '50mm Increm.' is noted, then the size can be selected in 50mm increments from the standard minimum width.

Stainless Steel Idler Conveyor

Load	Idler Diameter	Page Listed	Idler Conveyor Model	Idler Unit Model (*Repair Part Name)	Idler Specifications					Idler Width		Standard Shaft Specifications			
					Outer Diameter (φ)	Wall Thickness (t)	Shaft Indent (φ)	Material	Bearing	Standard Idler Width (Nominal) W	Free Size	Shaft Diameter (φ) Nominal (Actual)	Shape	Finish	Material
Light	φ19	92	RS-1912	RS-1912	19.0	1.2	6.2	SUS304	Pressed	100 - 500	Y	6 (5.93)	Circular rod	Crescent-shape	SUS304
	φ38	93	RS-3810-8	RS-3810-8	38.1	1.0	8.2	SUS304	Pressed	100 - 600	50mm Increm.	8.0	Pipe	Crescent-shape	SUS304
		94	RS-3810-12	RS-3810-12	38.1	1.0	12.2	SUS304	Pressed	100 - 600	50mm Increm.	8.0	Pipe	Circular/ Crescent-shape	SUS304
Light to Medium	φ60	99	ARS-6015	ARS-6015	60.5	1.5	12.2	SUS304	Pressed	100 - 800	Y	12.0	Pipe	Crescent-shape	SUS304

*The thickness of the pipe wall may be up to 12% less, due to JIS standards. *Single purpose free idler. Cannot be used as a driving idler.
*If a 'Y' is noted in the free size column, then it is possible to order the idler in any size, as long as it is within the range of our manufactured sizes.
If '50mm Increm.' is noted, then the size can be selected in 50mm increments from the standard minimum width.

Aluminum Idler Conveyor

Load	Idler Diameter	Page Listed	Idler Conveyor Model	Idler Unit Model (*Repair Part Name)	Idler Specifications					Idler Width		Standard Shaft Specifications			
					Outer Diameter (φ)	Wall Thickness (t)	Shaft Indent (φ)	Material	Bearing	Standard Idler Width (Nominal) W	Free Size	Shaft Diameter (φ) Nominal (Actual)	Shape	Finish	With/ Without Surface Plating
Light	φ28	100	RA-2816	RA-2816	28.6	1.6	8.2	Aluminum	Precision-machined	100 - 500	Y	8 (7.85)	Pipe	Crescent-shape	Y
	φ38	101	RA-3816	RA-3816	38.1	1.6	8.2	Aluminum	Pressed	100 - 600	50mm Increm.	8 (7.85)	Pipe	Crescent-shape	Y
	φ45	101	RA-4515	RA-4515	45.0	1.3	8.2	Aluminum	Pressed	100 - 600	50mm Increm.	8 (7.85)	Pipe	Crescent-shape	Y

*Single purpose free idler. Cannot be used as a driving idler.
*If a 'Y' is noted in the free size column, then it is possible to order the idler in any size, as long as it is within the range of our manufactured sizes.
If '50mm Increm.' is noted, then the size can be selected in 50mm increments from the standard minimum width.

Resin Idler Conveyor

Load	Idler Diameter	Page Listed	Idler Conveyor Model	Idler Unit Model (*Repair Part Name)	Idler Specifications					Idler Width		Standard Shaft Specifications			
					Outer Diameter (φ)	Wall Thickness (t)	Shaft Indent (φ)	Material	Bearing	Standard Idler Width (Nominal) W	Free Size	Shaft Diameter (φ) Nominal (Actual)	Shape	Finish	Material
Very Light	φ20	104	JR-2015B	JR-2015	20.0	1.6	6.2	ABS	Resin molding	100 - 400	Y	6 (5.9)	Pipe	Crescent-shape	Iron (plating)
	φ30	104	JR-3018B	JR-3018	30.6	2.2	8.2	ABS	Resin molding	100 - 500	Y	8.0	Pipe	Crescent-shape	SUS304
	φ38	105	JR-3823	JR-3823	38.0	2.6	8.2	ABS	Resin molding	100 - 500	Y	8.0	Pipe	Crescent-shape	SUS304
	φ50	106	JR-5028	JR-5028	50.3	3.1	12.2	ABS	Resin molding	100 - 600	Y	12.0	Pipe	Crescent-shape	SUS304

*Single purpose free idler. Cannot be used as a driving idler.
*If a 'Y' is noted in the free size column, then it is possible to order the idler in any size, as long as it is within the range of our manufactured sizes.
If '50mm Increm.' is noted, then the size can be selected in 50mm increments from the standard minimum width.

Tapered Idler Conveyor

Load	Curve Inner R (R)	Page Listed	Idler Conveyor Model	Idler Unit Model (*Repair Part Name)	Idler Specifications					Idler Width		Standard Shaft Specifications			
					Small Diameter Side (φ)	Large Diamete Side (φ)	Shaft Indent (φ)	Material	Bearing	Standard Idler Width (Nominal) W	Free Size	Shaft Diameter (φ) Nominal (Actual)	Shape	Finish	Material
Light to Medium	700	108	R-TC700	R-TC700	41.3	Refer to the tapered idler conveyor	12.2	Iron (plating)	Precision-machined	200 - 600	Y	12 (11.8)	Pipe	Crescent-shape	STKM11A
	900	109	R-TCN900	R-TCN900	42.7		12.2	Iron (plating)	Standard/ Precision-machined	300 - 800	Y/X	12 (11.8)	Pipe	Crescent-shape	STKM11A

*Single purpose free idler. Cannot be used as a driving idler.
*If a 'Y' is noted in the free size column, then it is possible to order the idler in any size, as long as it is within the range of our manufactured sizes.
If '50mm Increm.' is noted, then the size can be selected in 50mm increments from the standard minimum width.

(Unit: mm)

Frame Specifications			Manufactured Range of Standard Lengths						Standard Idler Pitch	Unit Height	Special Features & Applications
Height x Width x Wall Thickness	Material	Surface Treatment	L					R900 Inner Curve	Pitch P (*Caution 1)	(Idler Upper Surface) H	
I x K x t			500	1,000	1,500	2,000	3,000				
[90×30×4.5	Steel	Coating	–	Y	Y	Y	Y	Y	75 / 100 / 150 / 200	100	Compatible with R-5723 free size idler
[90×30×3.2	Steel	Coating	–	Y	Y	Y	Y	Y	75 / 100 / 150 / 200	101.7	Idler diameter is φ60, suitable for medium loads, versatile and low-cost
[120×30×3.2	Steel	Coating	–	Y	Y	Y	Y	Y	75 / 100 / 150 / 200	80	Idler diameter is φ60, dual-use frame/guide
[90×30×4.5	Steel	Coating	–	Y	Y	Y	Y	Y	75 / 100 / 150 / 200	100	Idler diameter is φ60 with t 3.8 wall thickness, shaft diameter φ20, suitable for heavy loads
[90×30×4.5	Steel	Coating	–	Y	Y	Y	Y	Y	100 / 150 / 200 / 300	100	Idler diameter is φ76 with t 4.2 wall thickness, shaft diameter φ20, suitable for heavy loads, low-cost

(*Caution 1) Please take care as the curve will become equivalent to each pitch. The actual pitch may vary slightly on a straight-line conveyor.
Please refer to 'Conveyor Part Dimensions,Frame Finish Dimensions, Average Pitch'.

(Unit mm)

Frame Specifications			Manufactured Range of Standard Lengths						Standard Idler Pitch	Unit Height	Special Features & Applications
Height x Width x Wall Thickness	Material	Surface Treatment	L					R900 Inner Curve	Pitch P (*Caution 1)	(Idler Upper Surface) H	
I x K x t			500	1,000	1,500	2,000	3,000				
[60×30×2.0	SUS304	2B Finish	–	Y	Y	Y	Y	Y	25 / 30 / 40	61.5	Idler diameter is φ19, low cost, most suitable for conveying light and small items
[60×30×2.0	SUS304	2B Finish	–	Y	Y	Y	Y	Y	50 / 75 / 100 / 150	67	φ38 completely stainless steel, most versatile for light loads, low-cost
[60×30×2.0	SUS304	2B Finish	–	Y	Y	Y	Y	Y	50 / 75 / 100 / 150	67	φ38 stainless steel, most suitable for conveying light and small items
[90×30×2.0	SUS304	2B Finish	–	Y	Y	Y	Y	Y	75 / 100 / 150	101.7	φ60 completely stainless steel, suitable for light to medium loads, low-cost

(*Caution 1) Please take care as the curve will become equivalent to each pitch. The actual pitch may vary slightly on a straight-line conveyor.
Please refer to 'Conveyor Part Dimensions Frame Finish Dimensions Average Pitch'.

(Unit mm)

Frame Specifications			Manufactured Range of Standard Lengths						Standard Idler Pitch	Unit Height	Special Features & Applications
Height x Width x Wall Thickness	Material	Surface Treatment	L					R900 Inner Curve	Pitch P (*Caution 1)	(Idler Upper Surface) H	
I x K x t			500	1,000	1,500	2,000	3,000				
[60×30×3.0	Aluminum	Alumite	–	Y	Y	Y	Y	Y	40 / 50 / 75	66	φ28 made of aluminum, light, most suitable for conveying light and small items
[60×30×3.0	Aluminum	Alumite	–	Y	Y	Y	Y	Y	50 / 75 / 100	67	φ38 made of aluminum, light, most suitable for conveying light items, most versatile out of aluminum idlers
[60×30×3.0	Aluminum	Alumite	–	Y	Y	Y	Y	Y	50 / 75 / 100	70.5	φ45 made of aluminum, light, most suitable for conveying light items

(*Caution 1) Please take care as the curve will become equivalent to each pitch. The actual pitch may vary slightly on a straight-line conveyor.
Please refer to 'Conveyor Part Dimensions Frame Finish Dimensions Average Pitch'.

(Unit mm)

Frame Specifications			Manufactured Range of Standard Lengths						Standard Idler Pitch	Unit Height	Special Features & Applications
Height x Width x Wall Thickness	Material	Surface Treatment	L					R900 Inner Curve	Pitch P (*Caution 1)	(Idler Upper Surface) H	
I x K x t			500	1,000	1,500	2,000	3,000				
[30×15×2.0	Aluminum	Alumite	–	Y	Y	Y	–	Y	25 / 30 / 40	31.5	φ20 resin idler, lightweight with an aluminum frame, most suitable for conveying light and small items, best-selling product
[44×18×3.0	Aluminum	Alumite	–	Y	Y	Y	Y	Y	40 / 50 / 75	50	φ30 resin idler, lightweight with an aluminum frame, most suitable for conveying light and small items
[60×30×3.0	Aluminum	Alumite	–	Y	Y	Y	Y	Y	50 / 75 / 100 / 150	67	φ38 resin idler, lightweight with an aluminum frame, most suitable for conveying light items
[90×30×3.0	Aluminum	Alumite	–	Y	Y	Y	Y	Y	75 / 100 / 150 / 200	96.5	φ50 resin idler, lightweight with an aluminum frame, most suitable for conveying light items

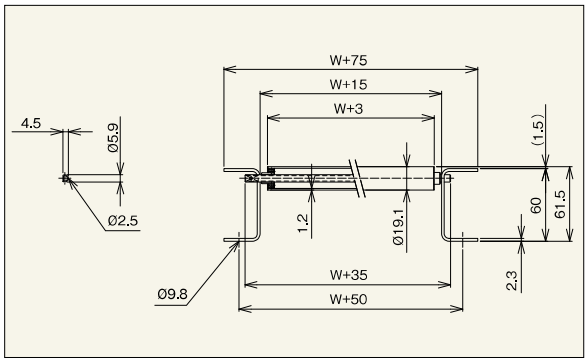
(*Caution 1) Please take care as the curve will become equivalent to each pitch. The actual pitch may be different in a straight conveyor.
Please refer to 'Conveyor Part Dimensions Frame Finish Dimensions Average Pitch'.

(Unit mm)

Frame Specifications			Standard Idler Pitch	Standard R	Unit Height	Special Features & Applications
Height x Width x Wall Thickness	Material	Surface Treatment	Pitch P (*Caution 1)	Curved	(Idler Upper Surface) H	
I x K x t						
[90×30×3.2	Steel	Coating	75 / 100 / 150	Y	100	For use with R700 inner curve, free sized idler widths possible
[90×30×3.2	Steel	Coating	75 / 100 / 150	Y	100	For use with R900 inner curve, smaller-diameter side φ42.7 type, low-cost

(*Caution 1) Please take care as the curve will become equivalent to each pitch. The actual pitch may vary slightly on a straight-line conveyor.
Please refer to 'Conveyor Part Dimensions Frame Finish Dimensions Average Pitch'.

R-1912P



[Intended Application]
Conveying very light loads
Ideal for conveying small items
[Product Characteristics]
1) Idler diameter is φ19.1, idler pitch is min. P20.
2) Idler width (nominal) is 100W-500W in standard increments of 50mm. Free sizes are also possible.
3) Pressed bearing, low-cost, best-selling φ19 product.
4) [60 standard frame
Caution 1. Please indicate the connector plate (the connecting part between conveyors) separately when required.
Caution 2. The shaft stopper will be a wire stopper.
Caution 3. If the idler pitch (P) is not cleanly divisible, then a suitable pitch (P) will be chosen.

Unit Width / Idler Strength / Standard Weight

Idler Width (Nominal) W (mm)		100	200	300	400	500
Unit Width W+75 (mm)		175	275	375	475	575
Strength of One Idler (kg)		44	21	14	10	8
Conveyor Standard Weight 3,000L (kg)	20P	24.8	34.4	44.1	53.9	63.6
	25P	22.5	30.2	38.1	45.9	53.8
Idler / Shaft Standard Weight (g)		79	140	202	264	326

Caution 1. Idler strength has been calculated using the standard specifications of our company's standard conveyors and shafts. Please take care if you are providing your own shafts or frame.
Caution 2. The strength changes according to the conditions of use (whether there is impact or not). The values given in the chart are approximate values, and are not guaranteed.

Idler Unit Specifications

(Unit: mm)

Conveyor Model	Idler Unit	Idler Dimensions			Idler Width					Idler Specifications		Bearing
	Model	Outer Diameter (φ)	Wall Thickness (t)	Shaft Indent (φ)	Standard Idler Width (Nominal) W	Standard Full Idler Length BB	Possible Width Minimum Width (W)	Possible Width Maximum Width (W)	Free Size	Material	Surface Treatment	Specifications
R-1912P	R-1912P	19.1	1.2	6.2	100 - 500	W+13	40	600	Y	STKM12A	Molten zinc plating	Pressed

Standard Shaft Specifications

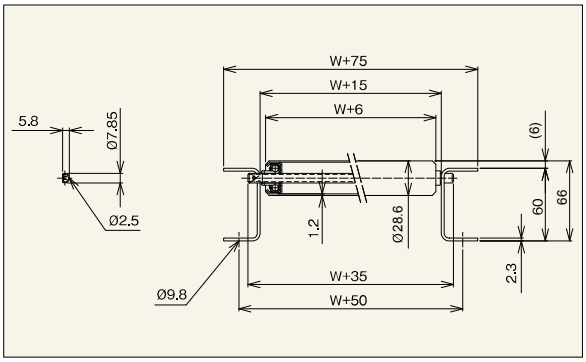
Standard Shaft Specifications					
Nominal Diameter (Actual Diameter) (Φ) × Wall Thickness (t)	Shaft Length (mm)	Shape	Finish	Material	Plating
6 (5.9) ×0.7	W+35	Pipe	Circular/Vertical crescent pin hole	STKM11A	X

Idler Conveyor Specifications

(Unit: mm)

Frame Specifications			Manufactured Range of Standard Lengths					Standard Idler Pitch	Unit Height
Height x Width x Wall Thickness H x K x t	Material	Surface Treatment	Unit Length L 1,000	1,500	2,000	3,000	R900 Inner Curve	Pitch P	(Idler Upper Surface) H
[60×30×2.3	Steel	Baked-on coating	Y	Y	Y	Y	Y	20 / 25 / 30	61.5

R-2812P



[Intended Application]
Conveying light loads
Ideal for conveying small items
[Product Characteristics]
1) Idler diameter is φ28.6, idler pitch is min. P30.
2) Idler width (nominal) is 100W-500W in standard increments of 50mm. Free sizes are also possible.
3) Pressed bearing, low-cost, best-selling φ28 product.
4) [60 standard frame
Caution 1. Please indicate the connector plate (the connecting part between conveyors) separately when required.
Caution 2. If the idler pitch is below P50, then the shaft stopper will be a wire stopper.
Caution 3. If the idler pitch (P) is not cleanly divisible, then a suitable pitch (P) will be chosen.

Unit Width/Idler Strength/Approximate Conveyor Weight

Idler Width (Nominal) W (mm)		100	200	300	400	500
Unit Width W+75 (mm)		175	275	375	475	575
Strength of One Idler (kg)		50	50	42	31	25
Conveyor Standard Weight 3,000L (kg)	30P	28.3	38.3	48.3	58.4	68.3
	40P	24.5	32.1	39.7	47.3	54.9
Idler / Shaft Standard Weight (g)		153	249	345	441	536

Caution 1. Idler strength has been calculated using the standard specifications of our company's standard conveyors and shafts. Please take care if you are providing your own shafts or frame.
Caution 2. The strength changes according to the conditions of use (whether there is impact or not). The values given in the chart are approximate values, and are not guaranteed.

Idler Unit Specifications

(Unit: mm)

Conveyor Model	Idler Unit	Idler Dimensions			Idler Width					Idler Specifications		Bearing
	Model	Outer Diameter (φ)	Wall Thickness (t)	Shaft Indent (φ)	Standard Idler Width (Nominal) W	Standard Full Idler Length BB	Possible Width Minimum Width (W)	Possible Width Maximum Width (W)	Free Size	Material	Surface Treatment	Specifications
R-2812P	R-2812P	28.6	1.2	8.2	100 - 500	W+13	40	600	Y	STKM12A	Molten zinc plating	Pressed

Standard Shaft Specifications

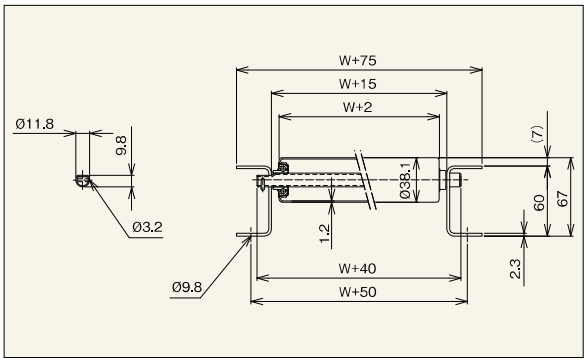
Standard Shaft Specifications					
Nominal Diameter (Actual Diameter) (Φ) × Wall Thickness (t)	Shaft Length (mm)	Shape	Finish	Material	Plating
8 (7.85) ×0.8	W+35	Pipe	Circular/Vertical crescent pin hole	STKM11A	X

Idler Conveyor Specifications

(Unit: mm)

Frame Specifications			Manufactured Range of Standard Lengths					Standard Idler Pitch	Unit Height
Height x Width x Wall Thickness H x K x t	Material	Surface Treatment	Unit Length L 1,000	1,500	2,000	3,000	R900 Inner Curve	Pitch P	(Idler Upper Surface) H
[60×30×2.3	Steel	Baked-on coating	Y	Y	Y	Y	Y	30 / 40 50 / 75	66

R-3812P



[Intended Application]
Conveying light to medium loads
Ideal for conveying small items
[Product Characteristics]
1) Idler diameter is φ38.1, idler pitch is min. P50.
2) Idler width (nominal) is 100W-1,000W in standard increments of 50mm.
3) Most versatile for conveying light to medium loads
4) Pressed bearing, low-cost, best-selling φ38 product.
5) [60 standard frame
Caution 1. Please indicate the connector plate (the connecting part between conveyors) separately when required.
Caution 2. If the idler pitch (P) is not cleanly divisible, then a suitable pitch (P) will be chosen.

Unit Width / Idler Strength / Standard Weight

Idler Width (Nominal) W (mm)		100	200	300	400	500	600	700	800	900	1,000
Unit Width W+75 (mm)		175	275	375	475	575	675	775	875	975	1,075
Strength of One Idler (kg)		144	144	94	80	60	48	42	38	35	32
Conveyor Standard	50P	25.5	33.9	42.4	50.9	59.5	66.1	74.5	83.3	91.9	100.5
Weight 3,000L (kg)	75P	21.3	27.1	32.9	38.7	44.5	48.5	54.3	60.3	66.2	72.1
Idler / Shaft Standard Weight (g)		209	342	476	611	746	881	1,014	1,151	1,285	1,422

Caution 1. Idler strength has been calculated using the standard specifications of our company's standard conveyors and shafts. Please take care if you are providing your own shafts or frame.
Caution 2. The strength changes according to the conditions of use (whether there is impact or not). The values given in the chart are approximate values, and are not guaranteed.

Idler Unit Specifications

(Unit: mm)

Conveyor Model	Idler Unit	Idler Dimensions			Idler Width					Idler Specifications		Bearing
	Model	Outer Diameter (φ)	Wall Thickness (t)	Shaft Indent (φ)	Standard Idler Width (Nominal) W	Standard Full Idler Length BB	Possible Width		Free size	Material	Surface Treatment	Specifications
							Minimum Width (W)	Maximum Width (W)				
R-3812P	R-3812P	38.1	1.2	12.2	100 - 1,000	W+13	100	1,000	50mm Increm.	STKM11A	Molten zinc plating	Pressed

Standard Shaft Specifications

Standard Shaft Specifications					
Nominal Diameter (Actual Diameter) (φ) × Wall Thickness (t)	Shaft Length (mm)	Shape	Finish	Material	Plating
12 (11.8) ×1.0	W+40	Pipe	Circular/Vertical crescent pin hole	STKM11A	X

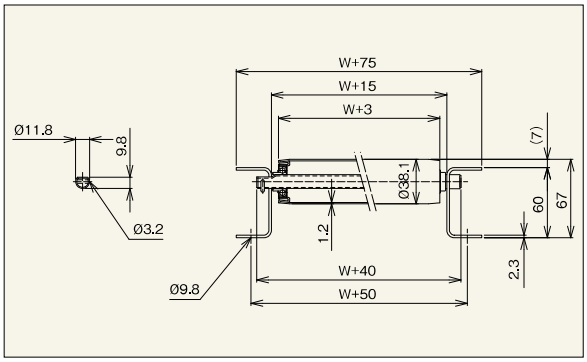
Idler Conveyor Specifications

(Unit: mm)

Frame Specifications			Manufactured Range of Standard Lengths					Standard Idler Pitch	Unit Height
Height x Width x Wall Thickness H x K x t	Material	Surface Treatment	Unit Length L				R900 Inner Curve	Pitch P	(Idler Upper Surface) H
			1,000	1,500	2,000	3,000			
[60×30×2.3	Steel	Baked-on coating	Y	Y	Y	Y	Y	50 / 75 100 / 150	67

R-3812PD

Compatible with R-3812P Free Size Idler



[Intended Application]
Conveying light to medium loads
[Product Characteristics]
1) Idler diameter is φ38.1, idler pitch is min. P50.
2) Idler width (nominal) is 100W-1,000W in standard increments of 50mm. Free sizes are also possible.
3) Pressed bearing, low-cost
4) [60 standard frame
Caution 1: Please indicate the connector plate (the connecting part between conveyors) separately when required.
Caution 2: If the idler pitch (P) is not cleanly divisible, then a suitable pitch (P) will be chosen.

Unit Width / Idler Strength / Standard Weight

Idler Width (Nominal) W (mm)		100	200	300	400	500	600	700	800	900	1,000
Unit Width W+75 (mm)		175	275	375	475	575	675	775	875	975	1,075
Strength of One Idler (kg)		138	126	82	70	60	45	42	35	32	28
Conveyor Standard	50P	26.3	34.7	43.2	51.7	60.3	66.3	75.4	84.1	92.7	101.4
Weight 3,000L (kg)	75P	21.9	27.7	33.5	39.3	45.1	48.6	54.9	60.8	66.7	72.7
Idler / Shaft Standard Weight (g)		223	356	490	625	760	885	1,028	1,165	1,299	1,436

Caution 1: Idler strength has been calculated using the standard specifications of our company's standard conveyors and shafts. Please take care if you are providing your own shafts or frame.
Caution 2: The strength changes according to the conditions of use (whether there is impact or not). The values given in the chart are approximate values, and are not guaranteed.

Idler Unit Specifications

(Unit: mm)

Conveyor Model	Idler Unit	Idler Dimensions			Idler Width					Idler Specifications		Bearing
	Model	Outer Diameter (φ)	Wall Thickness (t)	Shaft Indent (φ)	Standard Idler Width (Nominal) W	Standard Full Idler Length BB	Possible Width		Free Size	Material	Surface Treatment	Specifications
							Minimum Width (W)	Maximum Width (W)				
R-3812PD	R-3812PD	38.1	1.2	12.2	100 - 1,000	W+13	40	1,200	Y	STKM11A	Molten zinc plating	Pressed

Standard Shaft Specifications

Standard Shaft Specifications					
Nominal Diameter (Actual Diameter) (φ) × Wall Thickness (t)	Shaft Length (mm)	Shape	Finish	Material	Plating
12 (11.8) x 1.0	W+40	Pipe	Circular/Horizontal crescent pin hole	STKM11A	X

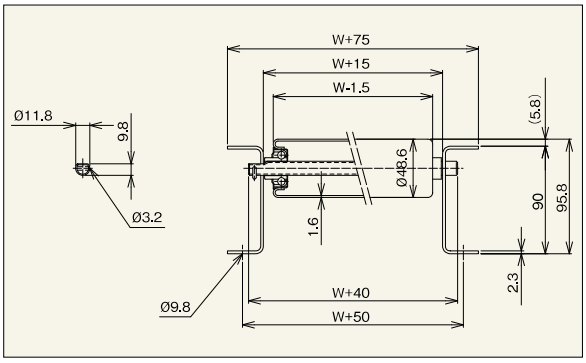
Idler Conveyor Specifications

(Unit: mm)

Frame Specifications			Manufactured Range of Standard Lengths					Standard Idler Pitch	Unit Height
Height x Width x Wall Thickness H x K x t	Material	Surface Treatment	Unit Length L				R900 Inner Curve	Pitch P	(Idler Upper Surface) H
			1,000	1,500	2,000	3,000			
[60×30×2.3	Steel	Baked-on coating	Y	Y	Y	Y	Y	50 / 75 100 / 150	67

R-4814P


*The connector plate is an optional extra.



[Intended Application]
Conveying medium loads
[Product Characteristics]
1) Idler diameter is φ48.6, idler pitch is min. P50.
2) Idler width (nominal) is 100W-1,000W in standard increments of 50mm.
3) Pressed bearing, low-cost
4) [90 standard frame
Caution 1: Please indicate the connector plate (the connecting part between conveyors) separately when required.
Caution 2: If the idler pitch (P) is not cleanly divisible, then a suitable pitch (P) will be chosen.

Unit Width / Idler Strength / Standard Weight

Idler Width (Nominal) W (mm)		100	200	300	400	500	600	700	800	900	1,000
Unit Width W+75 (mm)		175	275	375	475	575	675	775	875	975	1,075
Strength of One Idler (kg)		175	168	147	109	87	72	62	54	48	43
Conveyor Standard	75P	30.1	39.0	47.8	56.7	65.5	73.3	82.2	91.3	100.3	109.4
Weight 3,000L (kg)	100P	26.7	33.4	40.1	46.9	53.6	59.3	66.2	73.1	80.0	87.0
Idler / Shaft Standard Weight (g)		347	558	767	978	1,188	1,399	1,607	1,820	2,029	2,242

Caution 1. Idler strength has been calculated using the standard specifications of our company's standard conveyors and shafts. Please take care if you are providing your own shafts or frame.
Caution 2. The strength changes according to the conditions of use (whether there is impact or not). The values given in the chart are approximate values, and are not guaranteed.

Idler Unit Specifications

(Unit: mm)

Conveyor Model	Idler Unit	Idler Dimensions			Idler Width					Idler Specifications		Bearing
	Model	Outer Diameter (φ)	Wall Thickness (t)	Shaft Indent (φ)	Standard Idler Width (Nominal) W	Standard Full Idler Length BB	Possible Width		Free Size	Material	Surface Treatment	Specifications
							Minimum Width (W)	Maximum Width (W)				
R-4814P	R-4814P	48.6	1.6	12.2	100 - 1,000	W+13	100	1,000	50mm Increm.	STKM	Molten zinc plating	Pressed

Standard Shaft Specifications

Standard Shaft Specifications					
Nominal Diameter (Actual Diameter) (Φ) × Wall Thickness (t)	Shaft Length (mm)	Shape	Finish	Material	Plating
12 (11.8) x 1.0	W+40	Pipe	Circular/Horizontal crescent pin hole	STKM11A	X

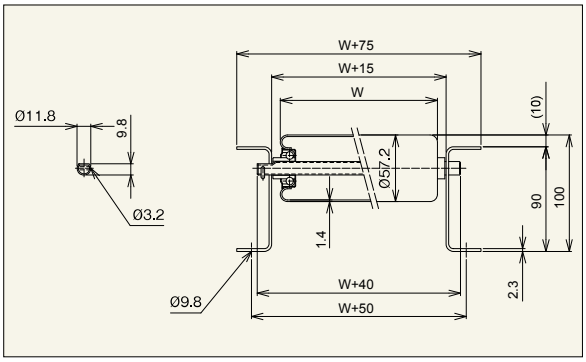
Idler Conveyor Specifications

(Unit: mm)

Frame Specifications			Manufactured Range of Standard Lengths					Standard Idler Pitch	Unit Height
Height x Width x Wall Thickness H x K x t	Material	Surface Treatment	Unit Length L				R900 Inner Curve	Pitch P	(Idler Upper Surface) H
			1,000	1,500	2,000	3,000			
[90×30×2.3	Steel	Baked-on coating	Y	Y	Y	Y	Y	50 / 75 100 / 150	95.8

R-5714P


*The connector plate is an optional extra.



[Intended Application]
Conveying medium loads
[Product Characteristics]
1) Idler diameter is φ57.2, idler pitch is min. P75.
2) Idler width (nominal) is 100W-1,000W in standard increments of 50mm.
3) Most versatile for conveying medium loads.
4) Pressed bearing, low-cost, best-selling φ57 product.
5) [90 standard frame
Caution 1. Please indicate the connector plate (the connecting part between conveyors) separately when required.
Caution 2. If the idler pitch (P) is not cleanly divisible, then a suitable pitch (P) will be chosen.

Unit Width / Idler Strength / Standard Weight

Idler Width (Nominal) W (mm)		100	200	300	400	500	600	700	800	900	1,000
Unit Width W+75 (mm)		175	275	375	475	575	675	775	875	975	1,075
Strength of One Idler (kg)		175	168	147	109	87	72	62	54	48	43
Conveyor Standard	75P	31.7	40.8	49.9	59.1	68.2	76.3	85.6	94.9	104.2	113.5
Weight 3,000L (kg)	100P	27.8	34.8	41.7	48.7	55.7	61.5	68.7	75.8	83.0	90.1
Idler / Shaft Standard Weight (g)		385	603	820	1,038	1,256	1,474	1,690	1,910	2,127	2,347

Caution 1. Idler strength has been calculated using the standard specifications of our company's standard conveyors and shafts. Please take care if you are providing your own shafts or frame.
Caution 2. The strength changes according to the conditions of use (whether there is impact or not). The values given in the chart are approximate values, and are not guaranteed.

Idler Unit Specifications

(Unit: mm)

Conveyor Model	Idler Unit	Idler Dimensions			Idler Width					Idler Specifications		Bearing
	Model	Outer Diameter (φ)	Wall Thickness (t)	Shaft Indent (φ)	Standard Idler Width (Nominal) W	Standard Full Idler Length BB	Possible Width		Free Size	Material	Surface Treatment	Specifications
							Minimum Width (W)	Maximum Width (W)				
R-5714P	R-5714P	57.2	1.4	12.2	100 - 1,000	W+13	100	1,000	50mm Increm.	STKM11A-S	Molten zinc plating	Pressed

Standard Shaft Specifications

Standard Shaft Specifications					
Nominal Diameter (Actual Diameter) (Φ) × Wall Thickness (t)	Shaft Length (mm)	Shape	Finish	Material	Plating
12 (11.8) ×1.0	W+40	Pipe	Circular/Horizontal crescent pin hole	STKM11A	X

Idler Conveyor Specifications

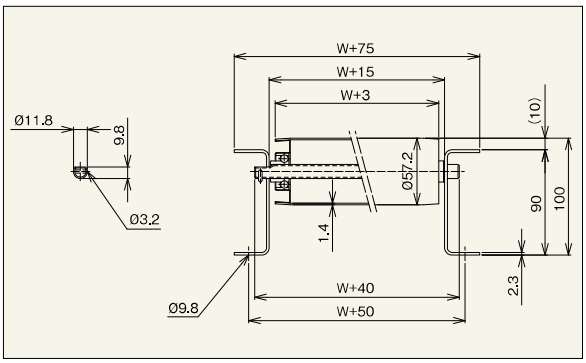
(Unit: mm)

Frame Specifications			Manufactured Range of Standard Lengths					Standard Idler Pitch	Unit Height
Height x Width x Wall Thickness H x K x t	Material	Surface Treatment	Unit Length L				R900 Inner Curve	Pitch P	(Idler Upper Surface) H
			1,000	1,500	2,000	3,000			
[90×30×2.3	Steel	Baked-on coating	Y	Y	Y	Y	Y	75 / 100 150 / 200	100

R-5714PD

Compatible with R-5714P Free Size Idler


*The connector plate is an optional extra.



[Intended Application]
Conveying light to medium loads
[Product Characteristics]
1) Idler diameter is φ57.2, idler pitch is min. P75.
2) Idler width (nominal) is 100W-1,000W in standard increments of 50mm. Free sizes are also possible.
3) Pressed bearing, low-cost
4) [90 standard frame
Caution 1: Please indicate the connector plate (the connecting part between conveyors) separately when required.
Caution 2: If the idler pitch (P) is not cleanly divisible, then a suitable pitch (P) will be chosen.

Unit Width / Idler Strength / Standard Weight

Idler Width (Nominal) W (mm)		100	200	300	400	500	600	700	800	900	1,000
Unit Width W+75 (mm)		175	275	375	475	575	675	775	875	975	1,075
Strength of One Idler (kg)		175	168	147	109	87	72	62	54	48	43
Conveyor Standard Weight 3,000L (kg)	75P	33.8	42.8	51.9	61.1	70.1	78.2	87.4	96.8	106.0	115.3
	100P	29.4	36.3	43.2	50.2	57.1	62.9	70.1	77.2	84.3	91.5
Idler / Shaft Standard Weight (g)		437	654	870	1,087	1,304	1,521	1,737	1,956	2,172	2,391

Caution 1. Idler strength has been calculated using the standard specifications of our company's standard conveyors and shafts. Please take care if you are providing your own shafts or frame.
Caution 2. The strength changes according to the conditions of use (whether there is impact or not). The values given in the chart are approximate values, and are not guaranteed.

Idler Unit Specifications

(Unit: mm)

Conveyor Model	Idler Unit	Idler Dimensions			Idler Width					Idler Specifications		Bearing
	Model	Outer Diameter (φ)	Wall Thickness (t)	Shaft Indent (φ)	Standard Idler Width (Nominal) W	Standard Full Idler Length BB	Possible Width Minimum Width (W)	Possible Width Maximum Width (W)	Free Size	Material	Surface Treatment	Specifications
R-5714PD	R-5714PD	57.2	1.4	12.2	100 - 1,000	W+13	50	1,500	Y	STKM11A-S	Molten zinc plating	Pressed

Standard Shaft Specifications

Standard Shaft Specifications					
Nominal Diameter (Actual Diameter) (Φ) × Wall Thickness (t)	Shaft Length (mm)	Shape	Finish	Material	Plating
12 (11.8) ×1.0	W+40	Pipe	Circular/Horizontal crescent pin hole	STKM11A	X

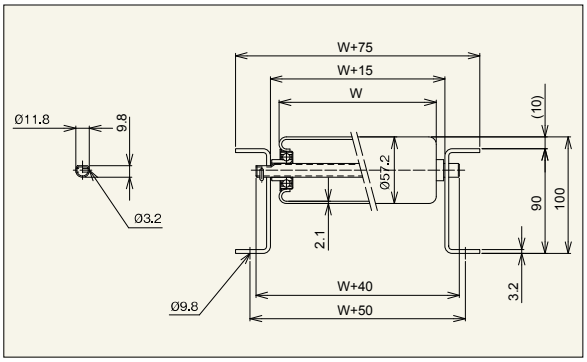
Idler Conveyor Specifications

(Unit: mm)

Frame Specifications			Manufactured Range of Standard Heights					Standard Idler Pitch	Unit Height
Height x Width x Wall Thickness H x W x t	Material	Surface Treatment	Unit Length L 1,000	1,500	2,000	3,000	R900 Inner Curve	Pitch P	(Idler Upper Surface) H
[90×30×2.3	Steel	Baked-on coating	Y	Y	Y	Y	Y	75 / 100 150 / 200	100

R-5721


*The connector plate is an optional extra.



[Intended Application]
Conveying medium loads
[Product Characteristics]
1) Idler diameter is φ57.2, wall thickness is t2.1, improved impact resistance, idler pitch is min. P75.
2) Idler width (nominal) is 100W-1,000W in standard increments of 50mm.
3) High quality with precision-machined bearing
4) [90 standard frame
Caution 1. Please indicate the connector plate (the connecting part between conveyors) separately when required.
Caution 2. If the idler pitch (P) is not cleanly divisible, then a suitable pitch (P) will be chosen.

Unit Width / Idler Strength / Standard Weight

Idler Width (Nominal) W (mm)		100	200	300	400	500	600	700	800	900	1,000
Unit Width W+75 (mm)		175	275	375	475	575	675	775	875	975	1,075
Strength of One Idler (kg)		180	170	150	110	90	75	65	55	50	45
Conveyor Standard Weight 3,000L (kg)	75P	40.0	52.3	65.6	78.4	91.3	103.0	116.0	129.0	142.0	155.0
	100P	35.5	45.2	54.9	64.6	74.4	83.0	92.9	102.8	112.7	122.6
Idler / Shaft Standard Weight (g)		452	762	1,071	1,381	1,691	2,001	2,309	2,621	2,930	3,242

Caution 1. Idler strength has been calculated using the standard specifications of our company's standard conveyors and shafts. Please take care if you are providing your own shafts or frame.
Caution 2. The strength changes according to the conditions of use (whether there is impact or not). The values given in the chart are approximate values, and are not guaranteed.

Idler Unit Specifications

(Unit: mm)

Conveyor Model	Idler Unit	Idler Dimensions			Idler Width					Idler Specifications		Bearing
	Model	Outer Diameter (φ)	Wall Thickness (t)	Shaft Indent (φ)	Standard Idler Width (Nominal) W	Standard Full Idler Length BB	Possible Width Minimum Width (W)	Possible Width Maximum Width (W)	Free Size	Material	Surface Treatment	Specifications
R-5721	R-5721	57.2	2.1	12.2	100 - 1,000	W+13	100	1,000	50mm Increm.	STKM	Molten zinc plating	Precision-machined

Standard Shaft Specifications

Standard Shaft Specifications					
Nominal Diameter (Actual Diameter) (Φ) × Wall Thickness (t)	Shaft Length (mm)	Shape	Finish	Material	Plating
12 (11.8) ×1.0	W+40	Pipe	Circular/Horizontal crescent pin hole	STKM11A	X

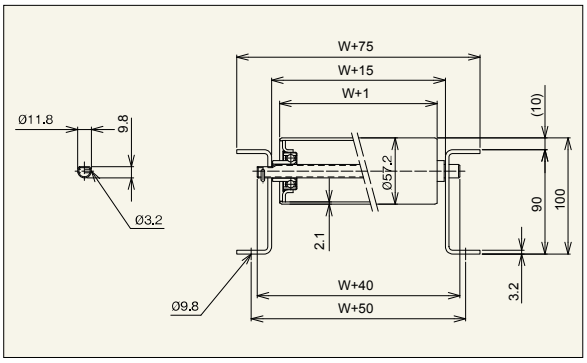
Idler Conveyor Specifications

(Unit: mm)

Frame Specifications			Manufactured Range of Standard Lengths					Standard Idler Pitch	Unit Height
Height x Width x Wall Thickness H x W x t	Material	Surface Treatment	Unit Length L 1,000	1,500	2,000	3,000	R900 Inner Curve	Pitch P	(Idler Upper Surface) H
[90×30×3.2	Steel	Baked-on coating	Y	Y	Y	Y	Y	75 / 100 150 / 200	100

R-5721D

Compatible with R-5721 Free Size Idler



[Intended Application]
Conveying light to medium loads
[Product Characteristics]
1) Idler diameter is φ57.2, wall thickness is t2.1, improved impact resistance, idler pitch is min. P75.
2) Idler width (nominal) is 100W-1,000W in standard increments of 50mm. Free sizes are also possible.
3) High quality with precision-machined bearing
4) [90 standard frame
Caution 1. Please indicate the connector plate (the connecting part between conveyors) separately when required.
Caution 2. If the idler pitch (P) is not cleanly divisible, then a suitable pitch (P) will be chosen.

Unit Width / Idler Strength / Standard Weight

Idler Width (Nominal) W (mm)		100	200	300	400	500	600	700	800	900	1,000
Unit Width W+75 (mm)		175	275	375	475	575	675	775	875	975	1,075
Strength of One Idler (kg)		180	170	150	110	90	75	65	55	50	45
Conveyor Standard	75P	42.8	55.1	68.4	81.2	94.1	105.8	118.8	131.8	144.8	157.8
Weight 3,000L (kg)	100P	37.6	47.3	57.0	66.7	76.5	85.1	95.0	104.9	114.8	124.7
Idler / Shaft Standard Weight (g)		522	832	1,141	1,451	1,761	2,071	2,379	2,691	3,000	3,312

Caution 1. Idler strength has been calculated using the standard specifications of our company's standard conveyors and shafts. Please take care if you are providing your own shafts or frame.
Caution 2. The strength changes according to the conditions of use (whether there is impact or not). The values given in the chart are approximate values, and are not guaranteed.

Idler Unit Specifications

(Unit: mm)

Conveyor Model	Idler Unit	Idler Dimensions			Idler Width					Idler Specifications		Bearing
	Model	Outer Diameter (φ)	Wall Thickness (t)	Shaft Indent (φ)	Standard Idler Width (Nominal) W	Standard Full Idler Length BB	Possible Width		Free Size	Material	Surface Treatment	Specifications
							Minimum Width (W)	Maximum Width (W)				
R-5721D	R-5721D	57.2	2.1	12.2	100 - 1,000	W+13	50	1,500	Y	STKM	Molten zinc plating	Precision-machined

Standard Shaft Specifications

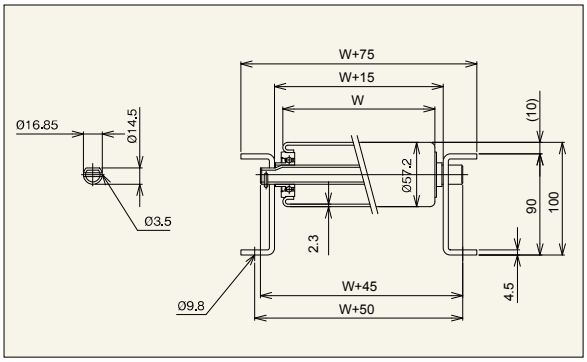
Standard Shaft Specifications					
Nominal Diameter (Actual Diameter) (Φ) × Wall Thickness (t)	Shaft Length (mm)	Shape	Finish	Material	Plating
12 (11.8) ×1.0	W+40	Pipe	Circular/Horizontal crescent pin hole	STKM11A	X

Idler Conveyor Specifications

(Unit: mm)

Frame Specifications			Manufactured Range of Standard Lengths					Standard Idler Pitch	Unit Height
Height x Width x Wall Thickness H x K x t	Material	Surface Treatment	Unit Length L				R900 Inner Curve	Pitch P	(Idler Upper Surface) H
			1,000	1,500	2,000	3,000			
[90×30×3.2	Steel	Baked-on coating	Y	Y	Y	Y	Y	75 / 100 150 / 200	100

R-5723



[Intended Application]
Conveying heavy loads
[Product Characteristics]
1) Idler diameter is φ57.2, wall thickness is t2.3, highly versatile for heavy loads. Idler pitch is min. P75.
2) Idler width (nominal) is 100W-1,000W in standard increments of 50mm.
3) High quality with precision-machined bearing
4) [90 standard frame
Caution 1. Please indicate the connector plate (the connecting part between conveyors) separately when required.
Caution 2. If the idler pitch (P) is not cleanly divisible, then a suitable pitch (P) will be chosen.

Unit Width / Idler Strength / Standard Weight

Idler Width (Nominal) W (mm)		100	200	300	400	500	600	700	800	900	1,000
Unit Width W+75 (mm)		175	275	375	475	575	675	775	875	975	1,075
Strength of One Idler (kg)		390	360	328	280	224	177	160	132	112	104
Conveyor Standard	75P	55.8	71.7	87.7	103.7	119.6	131.4	147.4	163.3	179.4	195.3
Weight 3,000L (kg)	100P	49.8	61.8	74.0	86.2	98.2	106.1	118.3	130.4	142.6	154.7
Idler / Shaft Standard Weight (g)		607	990	1,374	1,758	2,142	2,526	2,910	3,294	3,679	4,063

Caution 1. Idler strength has been calculated using the standard specifications of our company's standard conveyors and shafts. Please take care if you are providing your own shafts or frame.
Caution 2. The strength changes according to the conditions of use (whether there is impact or not). The values given in the chart are approximate values, and are not guaranteed.

Idler Unit Specifications

(Unit: mm)

Conveyor Model	Idler Unit	Idler Dimensions			Idler Width					Idler Specifications		Bearing
	Model	Outer Diameter (φ)	Wall Thickness (t)	Shaft Indent (φ)	Standard Idler Width (Nominal) W	Standard Full Idler Length BB	Possible Width		Free Size	Material	Surface Treatment	Specifications
							Minimum Width (W)	Maximum Width (W)				
R-5723	R-5723	57.2	2.3	17.2	100 - 1,000	W+13	100	1,000	50mm Increm.	STKM	Molten zinc plating	Precision-machined

Standard Shaft Specifications

Standard Shaft Specifications					
Nominal Diameter (Actual Diameter) (Φ) × Wall Thickness (t)	Shaft Length (mm)	Shape	Finish	Material	Plating
17 (16.85) ×2.0	W+45	Pipe	Circular/Horizontal crescent pin hole	STKM11A	X

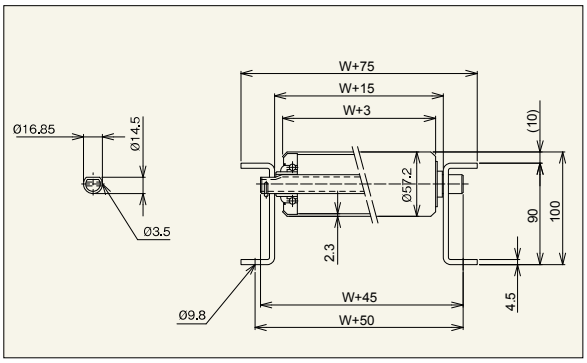
Idler Conveyor Specifications

(Unit: mm)

Frame Specifications			Manufactured Range of Standard Lengths					Standard Idler Pitch	Unit Height
Height x Width x Wall Thickness H x K x t	Material	Surface Treatment	Unit Length L				R900 Inner Curve	Pitch P	(Idler Upper Surface) H
			1,000	1,500	2,000	3,000			
[90×30×4.5	Steel	Baked-on coating	Y	Y	Y	Y	Y	75 / 100 150 / 200	100

R-5723D

Compatible with R-5723 Free Size Idler



[Intended Application]
Conveying heavy loads
[Product Characteristics]
1) Idler diameter is φ57.2, wall thickness is t 2.3, idler pitch is min. P75.
2) Idler width (nominal) is 100W-1,000W in standard increments of 50mm. Free sizes are also possible.
3) High quality with precision-machined bearing
4) [90 standard frame
Caution 1. Please indicate the connector plate (the connecting part between conveyors) separately when required.
Caution 2. If the idler pitch (P) is not cleanly divisible, then a suitable pitch (P) will be chosen.

Unit Width / Idler Strength / Standard Weight

Idler Width (Nominal) W (mm)		100	200	300	400	500	600	700	800	900	1,000
Unit Width W+75 (mm)		175	275	375	475	575	675	775	875	975	1,075
Strength of One Idler (kg)		390	360	328	280	224	177	160	132	112	104
Conveyor Standard	75P	70.2	86.2	102.2	118.2	134.2	146.0	162.0	178.0	194.0	210.0
Weight 3,000L (kg)	100P	60.6	72.7	84.9	97.1	109.1	117.0	129.2	141.4	153.6	165.7
Idler / Shaft Standard Weight (g)		969	1,352	1,737	2,122	2,506	2,891	3,275	3,660	4,045	4,429

Caution 1. Idler strength has been calculated using the standard specifications of our company's standard conveyors and shafts. Please take care if you are providing your own shafts or frame.
Caution 2. The strength changes according to the conditions of use (whether there is impact or not). The values given in the chart are approximate values, and are not guaranteed.

Idler Unit Specifications

(Unit: mm)

Conveyor Model	Idler Unit	Idler Dimensions			Idler Width					Idler Specifications		Bearing
	Model	Outer Diameter (φ)	Wall Thickness (t)	Shaft Indent (φ)	Standard Idler Width (Nominal) W	Standard Full Idler Length BB	Possible Width Minimum Width (W)	Possible Width Maximum Width (W)	Free Size	Material	Surface Treatment	Specifications
R-5723D	R-5723D	57.2	2.3	17.2	100 - 1,000	W+13	50	1,500	Y	STKM	Molten zinc plating	Precision-machined

Standard Shaft Specifications

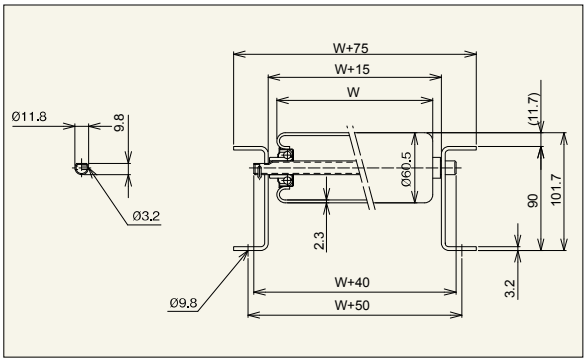
Standard Shaft Specifications					
Nominal Diameter (Actual Diameter) (Φ) × Wall Thickness (t)	Shaft Length (mm)	Shape	Finish	Material	Plating
17 (16.85) ×2.0	W+45	Pipe	Circular/Horizontal crescent pin hole	STKM11A	X

Idler Conveyor Specifications

(Unit: mm)

Frame Specifications			Manufactured Range of Standard Lengths					Standard Idler Pitch	Unit Height
Height × Width × Wall Thickness I×K×t	Material	Surface Treatment	Unit Length L 1,000	1,500	2,000	3,000	R900 Inner Curve	Pitch P	(Idler Upper Surface) H
[90×30×4.5	Steel	Baked-on coating	Y	Y	Y	Y	Y	75 / 100 150 / 200	100

R-6023P



[Intended Application]
Conveying medium loads
[Product Characteristics]
1) Idler diameter is φ60.5, wall thickness is t 2.3, idler pitch is min. P75.
2) Idler width (nominal) is 100W-1,000W in standard increments of 50mm.
3) Pressed bearing, low-cost
4) [90 standard frame
Caution 1. Please indicate the connector plate (the connecting part between conveyors) separately when required.
Caution 2. If the idler pitch (P) is not cleanly divisible, then a suitable pitch (P) will be chosen.

Unit Width / Idler Strength / Standard Weight

Idler Width (Nominal) W (mm)		100	200	300	400	500	600	700	800	900	1,000
Unit Width W+75 (mm)		175	275	375	475	575	675	775	875	975	1,075
Strength of One Idler (kg)		180	170	150	110	90	75	65	55	50	45
Conveyor Standard	75P	42.6	57.2	71.8	86.4	101.0	114.5	129.3	144.2	159.0	173.8
Weight 3,000L (kg)	100P	37.4	48.5	59.5	70.6	81.7	91.7	102.9	114.2	125.4	136.7
Idler / Shaft Standard Weight (g)		516	871	1,225	1,580	1,935	2,290	2,643	3,000	3,354	3,761

Caution 1. Idler strength has been calculated using the standard specifications of our company's standard conveyors and shafts. Please take care if you are providing your own shafts or frame.
Caution 2. The strength changes according to the conditions of use (whether there is impact or not). The values given in the chart are approximate values, and are not guaranteed.

Idler Unit Specifications

(Unit: mm)

Conveyor Model	Idler Unit	Idler Dimensions			Idler Width					Idler Specifications		Bearing
	Model	Outer Diameter (φ)	Wall Thickness (t)	Shaft Indent (φ)	Standard Idler Width (Nominal) W	Standard Full Idler Length BB	Possible Width Minimum Width (W)	Possible Width Maximum Width (W)	Free Size	Material	Surface Treatment	Specifications
R-6023P	R-6023P	60.5	2.3	12.2	100 - 1,000	W+13	100	1,000	50mm Increm.	STKM	Molten zinc plating	Pressed

Standard Shaft Specifications

Standard Shaft Specifications					
Nominal Diameter (Actual Diameter) (Φ) × Wall Thickness (t)	Shaft Length (mm)	Shape	Finish	Material	Plating
12 (11.8) ×1.0	W+40	Pipe	Circular/Horizontal crescent pin hole	STKM11A	X

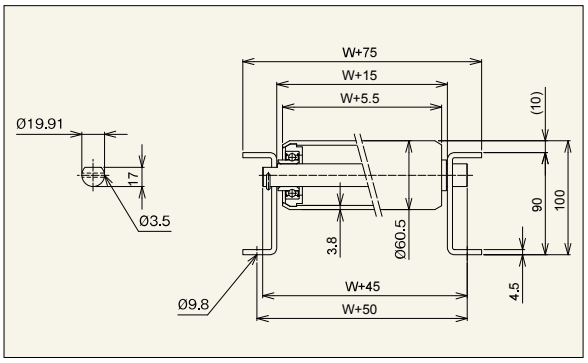
Idler Conveyor Specifications

(Unit: mm)

Frame Specifications			Manufactured Range of Standard Lengths					Standard Idler Pitch	Unit Height
Height × Width × Wall Thickness I×K×t	Material	Surface Treatment	Unit Length L 1,000	1,500	2,000	3,000	R900 Inner Curve	Pitch P	(Idler Upper Surface) H
[90×30×3.2	Steel	Baked-on coating	Y	Y	Y	Y	Y	75 / 100 150 / 200	101.7

R-6038SB


*The connector plate is an optional extra.



[Intended Application] Conveying heavy loads
[Product Characteristics]
1) We have changed the precision-machined bearing of the previous model R-6038 to a bearing that meets standards, improving the quality of the idler.
2) Idler diameter is φ60.5, wall thickness is t 3.8, idler pitch is min. P75.
3) Idler width (nominal) is 100W-1,000W in standard increments of 50mm. Free sizes are also possible.
4) [90 standard frame
Caution 1. Please indicate the connector plate (the connecting part between conveyors) separately when required.
Caution 2. If the idler pitch (P) is not cleanly divisible, then a suitable pitch (P) will be chosen.

Unit Width / Idler Strength / Standard Weight

Idler Width (Nominal) W (mm)		100	200	300	400	500	600	700	800	900	1,000
Unit Width W+75 (mm)		175	275	375	475	575	675	775	875	975	1,075
Strength of One Idler (kg)		475	475	475	475	475	475	450	420	400	380
Conveyor Standard	75P	77.9	109.8	140.3	170.8	201.2	231.2	262.1	292.5	323.0	353.4
Load 3,000L (kg)	100P	65.8	90.2	113.2	136.2	159.2	181.9	205.2	228.2	251.2	274.1
Idler / Shaft Standard Weight (g)		1,215	1,961	2,707	3,454	4,199	4,943	5,690	6,436	7,182	7,927

Caution 1. Idler strength has been calculated using the standard specifications of our company's standard conveyors and shafts. Please take care if you are providing your own shafts or frame.
Caution 2. The strength changes according to the conditions of use (whether there is impact or not). The values given in the chart are approximate values, and are not guaranteed.

Idler Unit Specifications

(Unit: mm)

Conveyor Model	Idler Unit	Idler Dimensions			Idler Width					Idler Specifications		Bearing
	Model	Outer Diameter (φ)	Wall Thickness (t)	Shaft Indent (φ)	Standard Idler Width (Nominal) W	Standard Full Idler Length BB	Possible Width Minimum Width (W)	Possible Width Maximum Width (W)	Free Size	Material	Surface Treatment	Specifications
R-6038SB	R-6038SB	60.5	3.8	20.0	100 - 1,000	W+13	50	1,500	Y	SGP50A	None/Black surface	Meets standards

Standard Shaft Specifications

Standard Shaft Specifications					
Shaft Diameter (φ) Nominal (Actual)	Shaft Length (mm)	Shape	Finish	Material	Plating
20 (19.91)	W+45	Circular rod	Circular/Horizontal crescent pin hole	SS400	X

Idler Conveyor Specifications

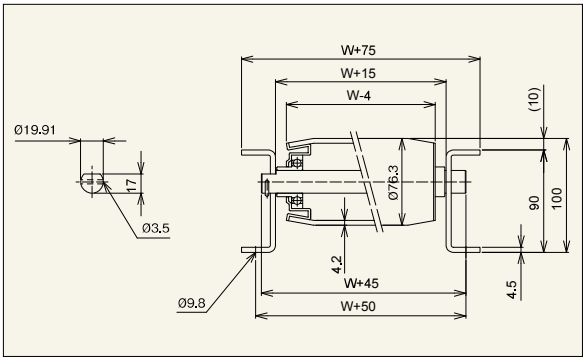
(Unit: mm)

Frame Specifications			Manufactured Range of Standard Lengths					Standard Idler Pitch	Unit Height
Height x Width x WallThickness I×K×t	Material	Surface Treatment	Unit Length L 1,000	1,500	2,000	3,000	R900 Inner Curve	Pitch P	(Idler Upper Surface) H
[90×30×4.5	Steel	Baked-on coating	Y	Y	Y	Y	Y	75 / 100 150 / 200	100

Caution: If you are supplying your own shafts, please ensure that the shaft diameter has a negative tolerance.

R-7642N


*The connector plate is an optional extra.



[Intended Application]
Conveying heavy loads
[Product Characteristics]
1) Idler diameter is φ76.3, wall thickness is t 4.2, idler pitch is min. P100.
2) Idler width (nominal) is 100W-1,000W in standard increments of 50mm. Free sizes are also possible.
3) High quality with precision-machined bearing
4) [90 standard frame
Caution 1. Please indicate the connector plate (the connecting part between conveyors) separately when required.
Caution 2. If the idler pitch (P) is not cleanly divisible, then a suitable pitch (P) will be chosen.

Unit Width / Idler Strength / Standard Weight

Idler Width (Nominal) W (mm)		100	200	300	400	500	600	700	800	900	1,000
Unit Width W+75 (mm)		175	275	375	475	575	675	775	875	975	1,075
Strength of One Idler (kg)		550	550	550	550	550	550	520	488	456	425
Conveyor Standard	100P	76.4	106.6	136.8	167.1	197.3	223.3	253.5	283.7	313.9	344.1
Load 3,000L (kg)	150P	61.5	81.8	102.1	122.5	142.8	159.0	179.4	199.6	220.0	240.3
Idler / Shaft Standard Weight (g)		1,495	2,482	3,469	4,456	5,443	6,430	7,417	8,404	9,391	10,378

Caution 1. Idler strength has been calculated using the standard specifications of our company's standard conveyors and shafts. Please take care if you are providing your own shafts or frame.
Caution 2. The strength changes according to the conditions of use (whether there is impact or not). The values given in the chart are approximate values, and are not guaranteed.

Idler Unit Specifications

(Unit: mm)

Conveyor Model	Idler Unit	Idler Dimensions			Idler Width					Idler Specifications		Bearing
	Model	Outer Diameter (φ)	Wall Thickness (t)	Shaft Indent (φ)	Standard Idler Width (Nominal) W	Standard Full Idler Length BB	Possible Width Minimum Width (W)	Possible Width Maximum Width (W)	Free Size	Material	Surface Treatment	Specifications
R-7642N	R-7642N	76.3	4.2	20.2	100 - 1,000	W+13	100	1,500	Y	SGP65A	None/Black surface	Precision-machined

Standard Shaft Specifications

Standard Shaft Specifications					
Shaft Diameter (φ) Nominal (Actual)	Shaft Length (mm)	Shape	Finish	Material	Plating
20 (19.9)	W+45	Circular rod	Circular/Horizontal crescent pin hole	SS400	X

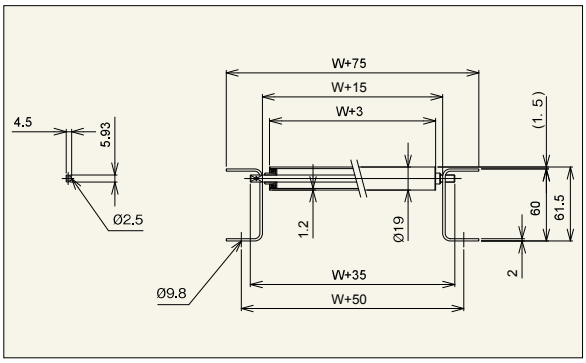
Idler Conveyor Specifications

(Unit: mm)

Frame Specifications			Manufactured Range of Standard Lengths					Standard Idler Pitch	Unit Height
Height x Width x WallThickness I×K×t	Material	Surface Treatment	Unit Length L 1,000	1,500	2,000	3,000	R900 Inner Curve	Pitch P	(Idler Upper Surface) H
[90×30×4.5	Steel	Baked-on coating	Y	Y	Y	Y	Y	100 / 150 200 / 300	100

RS-1912


*The connector plate is an optional extra.



[Intended Application]
Conveying very light loads
Ideal for conveying small items
[Product Characteristics]
1) Idler diameter is φ19.0, idler pitch is min. P25.
2) Idler width (nominal) is 100W-500W in standard increments of 50mm. Free sizes are also possible.
Caution 1. Please indicate the connector plate (the connecting part between conveyors) separately when required.
Caution 2. The shaft stopper will be a wire stopper.
Caution 3. If the idler pitch (P) is not cleanly divisible, then a suitable pitch (P) will be chosen.

Unit Width / Idler Strength / Standard Weight

Idler Width (Nominal) W (mm)		100	200	300	400	500
Unit Width W+75 (mm)		175	275	375	475	575
Strength of One Idler (kg)		44	35	23	17	14
Conveyor Standard	25P	25.6	33.4	41.3	49.1	57.0
Weight 3,000L (kg)	30P	21.5	27.2	32.9	38.7	44.4
Idler / Shaft Standard Weight (g)		102	155	208	261	314

Caution 1. Idler strength has been calculated using the standard specifications of our company's standard conveyors and shafts. Please take care if you are providing your own shafts or frame.
Caution 2. The strength changes according to the conditions of use (whether there is impact or not). The values given in the chart are approximate values, and are not guaranteed.

Idler Unit Specifications

(Unit: mm)

Conveyor Model	Idler Unit	Idler Dimensions			Idler Width					Idler Specifications		Bearing
	Model	Outer Diameter (φ)	Wall Thickness (t)	Shaft Indent (φ)	Standard Idler Width (Nominal) W	Standard Full Idler Length BB	Possible Width Minimum Width (W)	Possible Width Maximum Width (W)	Free Size	Material	Surface Treatment	Specifications
RS-1912	RS-1912	19.0	1.2	6.2	100 - 500	W+13	40	500	Y	SUS304	#400 Polish	Pressed

*Free size refers to idler widths W outside of the usual 50mm increments. If a 'Y' is shown then manufacturing different sizes is possible.

Standard Shaft Specifications

Standard Shaft Specifications					
Shaft Diameter (φ) Nominal (Actual)	Shaft Length (mm)	Shape	Finish	Material	Surface Treatment
6 (5.93)	W+35	Circular rod	Circular/Vertical Crescent Pin Hole	SUS304	None

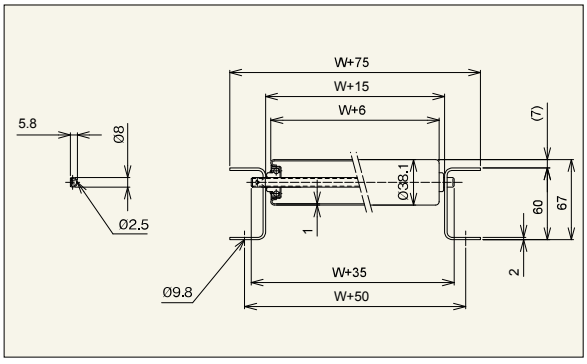
Idler Conveyor Specifications

(Unit: mm)

Frame Specifications			Manufactured Range of Standard Lengths					Standard Idler Pitch	Unit Height
Height x Width x Wall Thickness I×K×t	Material	Surface Treatment	Unit Length L 1,000	1,500	2,000	3,000	R900 Inner Curve	Pitch P	(Idler Upper Surface) H
[60×30×2	SUS304	2B material	Y	Y	Y	Y	Y	25 / 30 / 40	61.5

RS-3810-8


*The connector plate is an optional extra.



[Intended Application]
Conveying light loads
Ideal for conveying small items
[Product Characteristics]
1) Idler diameter is φ38.1, idler pitch is min. P50.
2) Idler width (nominal) is 100W-600W in standard increments of 50mm.
Caution 1. Please indicate the connector plate (the connecting part between conveyors) separately when required.
Caution 2. If the idler pitch (P) is not cleanly divisible, then a suitable pitch (P) will be chosen.

Unit Width / Idler Strength / Standard Weight

Idler Width (Nominal) W (mm)		100	200	300	400	500	600
Unit Width W+75 (mm)		175	275	375	475	575	675
Strength of One Idler (kg)		75	70	46	35	28	23
Conveyor Standard	50P	24.3	32.4	40.5	48.6	56.7	64.2
Weight 3,000L (kg)	75P	20	25.5	31.1	36.6	42.2	47.1
Idler / Shaft Standard Weight (g)		217	345	473	601	729	857

Caution 1. Idler strength has been calculated using the standard specifications of our company's standard conveyors and shafts. Please take care if you are providing your own shafts or frame.
Caution 2. The strength changes according to the conditions of use (whether there is impact or not). The values given in the chart are approximate values, and are not guaranteed.

Idler Unit Specifications

(Unit: mm)

Conveyor Model	Idler Unit	Idler Dimensions			Idler Width					Idler Specifications		Bearing
	Model	Outer Diameter (φ)	Wall Thickness (t)	Shaft Indent (φ)	Standard Idler Width (Nominal) W	Standard Full Idler Length BB	Possible Width Minimum Width (W)	Possible Width Maximum Width (W)	Free Size	Material	Surface Treatment	Specifications
RS-3810	RS-3810-8	38.1	1.0	8.2	100 - 600	W+13	100	600	50mm Increm.	SUS304	#400 Polish	Pressed

*Free size refers to idler widths W outside of the usual 50mm increments. If a 'Y' is shown then manufacturing different sizes is possible.

Standard Shaft Specifications

Standard Shaft Specifications					
Shaft × Wall Diameter (φ) Thickness (t) Nominal (Actual)	Shaft Length (mm)	Shape	Finish	Material	Surface Treatment
8.0×0.8	W+35	Pipe	Circular/Vertical crescent pin hole	SUS304	#400 Polish

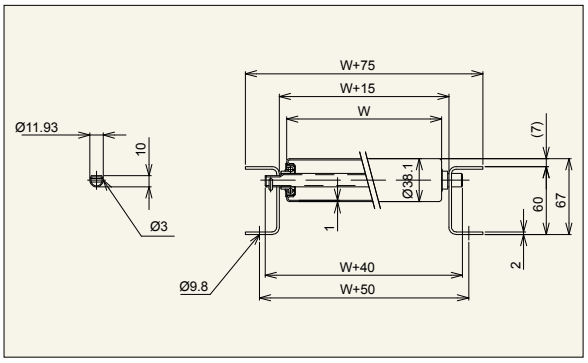
Idler Conveyor Specifications

(Unit: mm)

Frame Specifications			Manufactured Range of Standard Lengths					Standard Idler Pitch	Unit Height
Height x Width x Wall Thickness I x K x t	Material	Surface Treatment	Unit Length L 1,000	1,500	2,000	3,000	R900 Inner Curve	Pitch P	(Idler Upper Surface) H
[60×30×2	SUS304	2B Material	Y	Y	Y	Y	Y	50 / 75 100 / 150	67

Stainless Steel Idler Conveyor M Series

RS-3810-12



[Intended Application]
Conveying light loads
Ideal for conveying small items
[Product Characteristics]
1) Idler diameter is φ38.1, idler pitch is min. P50.
2) Idler width (nominal) is 100W-600W in standard increments of 50mm.
Caution 1. Please indicate the connector plate (the connecting part between conveyors) separately when required.
Caution 2. If the idler pitch (P) is not cleanly divisible, then a suitable pitch (P) will be chosen.

Unit Width / Idler Strength / Standard Weight

Idler Width (Nominal) W (mm)		100	200	300	400	500	600
Unit Width W+75 (mm)		175	275	375	475	575	675
Strength of One Idler (kg)		85	85	70	65	55	45
Conveyor Standard	50P	22.4	29.1	36.9	43.4	51.1	57.3
Weight 3,000L (kg)	75P	18.6	23.4	28.6	33.2	38.3	42.7
Idler / Shaft Standard Weight (g)		184	290	410	514	634	732

Caution 1. Idler strength has been calculated using the standard specifications of our company's standard conveyors and shafts. Please take care if you are providing your own shafts or frame.
Caution 2. The strength changes according to the conditions of use (whether there is impact or not). The values given in the chart are approximate values, and are not guaranteed.

Idler Unit Specifications

(Unit: mm)

Conveyor Model	Idler Unit	Idler Dimensions			Idler Width					Idler Specifications		Bearing
	Model	Outer Diameter (φ)	Wall Thickness (t)	Shaft Indent (φ)	Standard Idler Width (Nominal) W	Standard Full Idler Length BB	Possible Width Minimum Width (W)	Possible Width Maximum Width (W)	Free size	Material	Surface Treatment	Specifications
RS-3810-12	RS-3810-12	38.1	1.0	12.2	100 - 600	W+13	100	600	50mm Increm.	SUS304	#400 Polish	Pressed

*Free size refers to idler widths W outside of the usual 50mm increments. If a 'Y' is shown then manufacturing different sizes is possible.

Standard Shaft Specifications

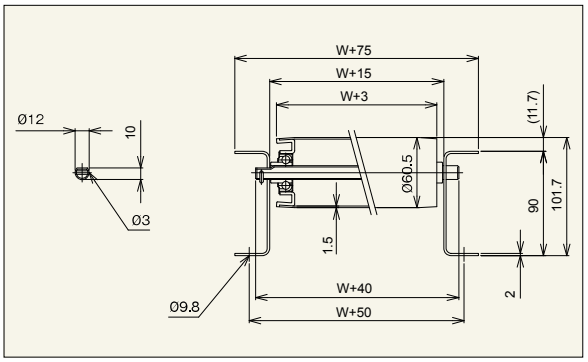
Standard Shaft Specifications					
Shaft × Wall Diameter (φ) Thickness (t) Nominal (Actual)	Shaft Length (mm)	Shape	Finish	Material	Surface Treatment
12×1.0	W+35	Pipe	Circular/Vertical crescent pin hole	SUS304	#400 Polish

Idler Conveyor Specifications

(Unit: mm)

Frame Specifications			Manufactured Range of Standard Lengths					Standard Idler Pitch	Unit Height
Height x Width x Wall Thickness I×K×t	Material	Surface Treatment	Unit Length L 1,000	1,500	2,000	3,000	R900 Inner Curve	Pitch P	(Idler Upper Surface) H
[60×30×2	SUS304	2B Material	Y	Y	Y	Y	Y	50 / 75 100 / 150	67

ARS-6015



[Intended Application]
Conveying light to medium loads
[Product Characteristics]
1) Idler diameter is φ60.5, idler pitch is min. P75.
2) Idler width (nominal) is 100W-800W in standard increments of 50mm. Free sizes are also possible.
3) Pressed bearing, low-cost
Caution 1. Please indicate the connector plate (the connecting part between conveyors) separately when required.
Caution 2. If the idler pitch (P) is not cleanly divisible, then a suitable pitch (P) will be chosen.

Unit Width / Idler Strength / Standard Weight

Idler Width (Nominal) W (mm)		100	200	300	400	500	600	700	800
Unit Width W+75 (mm)		175	275	375	475	575	675	675	675
Strength of One Idler (kg)		135	120	110	90	70	60	50	45
Conveyor Standard	75P	34.6	47.8	61	74.3	87.5	100.1	113.3	126.5
Weight 3,000L (kg)	100P	29.5	39.5	49.5	59.6	69.6	79.0	89.0	99.0
Idler / Shaft Standard Weight (g)		473	781	1,089	1,397	1,705	2,013	2,321	2,629

Caution 1. Idler strength has been calculated using the standard specifications of our company's standard conveyors and shafts. Please take care if you are providing your own shafts or frame.
Caution 2. The strength changes according to the conditions of use (whether there is impact or not). The values given in the chart are approximate values, and are not guaranteed.

Idler Unit Specifications

(Unit: mm)

Conveyor Model	Idler Unit	Idler Dimensions			Idler Width					Idler Specifications		Bearing
	Model	Outer Diameter (φ)	Wall Thickness (t)	Shaft Indent (φ)	Standard Idler Width (Nominal) W	Standard Full Idler Length BB	Possible Width Minimum Width (W)	Possible Width Maximum Width (W)	Free Size	Material	Surface Treatment	Specifications
ARS-6015	ARS-6015	60.5	1.5	12.2	100 - 800	W+13	100	1,000	Y	SUS304	#400 Polish	SUS pressed

*Free size refers to idler widths W outside of the usual 50mm increments. If a 'Y' is shown then manufacturing different sizes is possible.

Standard Shaft Specifications

Standard Shaft Specifications					
Shaft × Wall Diameter (φ) Thickness (t) Nominal (Actual)	Shaft Length (mm)	Shape	Finish	Material	Surface Treatment
12.0×1.0	W+40	Pipe	Circular/Horizontal crescent pin hole	SUS304	#400 Polish

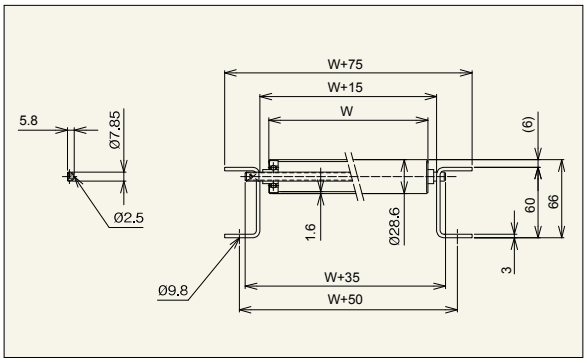
Idler Conveyor Specifications

(Unit: mm)

Frame Specifications			Manufactured Range of Standard Lengths					Standard Idler Pitch	Unit Height
Height x Width x Wall Thickness I×K×t	Material	Surface Treatment	Unit Length L 1,000	1,500	2,000	3,000	R900 Inner Curve	Pitch P	(Idler Upper Surface) H
[90×30×2	SUS304	2B Material	Y	Y	Y	Y	Y	75 / 100 / 150	101.7

RA-2816


*The connector plate is an optional extra.



[Intended Application]
Conveying light loads
Ideal for conveying small items
[Product Characteristics]
1) Idler diameter is φ28.6, idler pitch is min. P40.
2) Idler width (nominal) is 100W-500W in standard increments of 50mm. Free sizes are also possible.
3) High quality with precision-machined bearing
Caution 1. Please indicate the connector plate (the connecting part between conveyors) separately when required.
Caution 2. The shaft stopper will be a wire stopper if the idler pitch is below P50.
Caution 3. If the idler pitch (P) is not cleanly divisible, then a suitable pitch (P) will be chosen.

Unit Width / Idler Strength / Standard Weight

Idler Width (Nominal) W (mm)		100	200	300	400	500
Unit Width W+75 (mm)		175	275	375	475	575
Strength of One Idler (kg)		50	50	42	31	25
Conveyor Standard	40P	13.5	18	22.6	27.1	31.7
Weight 3,000L (kg)	50P	12	15.7	19.4	23.2	26.9
Idler / Shaft Standard Weight (g)		100	155	210	265	320

Caution 1. Idler strength has been calculated using the standard specifications of our company's standard conveyors and shafts. Please take care if you are providing your own shafts or frame.
Caution 2. The strength changes according to the conditions of use (whether there is impact or not). The values given in the chart are approximate values, and are not guaranteed.

Idler Unit Specifications

(Unit: mm)

Conveyor Model	Idler Unit	Idler Dimensions			Idler Width					Idler Specifications		Bearing
	Model	Outer Diameter (φ)	Wall Thickness (t)	Shaft Indent (φ)	Standard Idler Width (Nominal) W	Standard Full Idler Length BB	Possible Width Minimum Width (W)	Possible Width Maximum Width (W)	Free Size	Material	Surface Treatment	Specifications
RA-2816	RA-2816	28.6	1.6	8.2	100 - 500	W+13	40	500	Y	Aluminum	Alumite finish	Precision-machined

*Free size refers to idler widths W outside of the usual 50mm increments. If a 'Y' is shown then manufacturing different sizes is possible.

Standard Shaft Specifications

Standard Shaft Specifications					
Shaft Diameter (φ) × Wall Thickness (t) Nominal (Actual)	Shaft Length (mm)	Shape	Finish	Material	Surface Treatment
8 (7.85)×0.8	W+35	Pipe	Circular/Vertical crescent pin hole	STKM11A	Tri-chrome plating

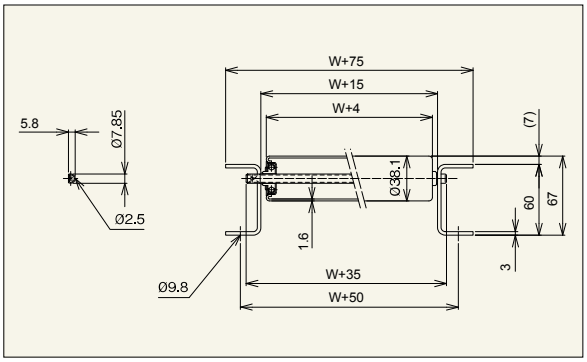
Idler Conveyor Specifications

(Unit: mm)

Frame Specifications			Manufactured Range of Standard Lengths					Standard Idler Pitch	Unit Height
Height × Width × Wall Thickness I x K x t	Material	Surface Treatment	Unit Length L 1,000	1,500	2,000	3,000	R900 Inner Curve	Pitch P	(Idler Upper Surface) H
[60×30×3	Aluminum	Alumite finish	Y	Y	Y	Y	Y	40 / 50 / 75	66

RA-3816


*The connector plate is an optional extra.



[Intended Application]
Conveying light loads
[Product Characteristics]
1) Idler diameter is φ38.1, idler pitch is min. P50. It is the most versatile out of our aluminum idler models
2) Idler width (nominal) is 100W-600W in standard increments of 50mm.
3) Pressed bearing, low cost
Caution 1. Please indicate the connector plate (the connecting part between conveyors) separately when required.
Caution 2. The shaft stopper will be a wire stopper if the idler pitch is below P50.
Caution 3. If the idler pitch (P) is not cleanly divisible, then a suitable pitch (P) will be chosen.

Unit Width / Idler Strength / Standard Weight

Idler Width (Nominal) W (mm)		100	200	300	400	500	600
Unit Width W+75 (mm)		175	275	375	475	575	675
Strength of One Idler (kg)		50	50	42	31	25	21
Conveyor Standard	50P	12.6	16.9	21.2	25.6	29.9	33.6
Weight 3,000L (kg)	75P	10.4	13.4	16.4	19.5	22.5	24.9
Idler / Shaft Standard Weight (kg)		110	175	240	305	370	435

Caution 1. Idler strength has been calculated using the standard specifications of our company's standard conveyors and shafts. Please take care if you are providing your own shafts or frame.
Caution 2. The strength changes according to the conditions of use (whether there is impact or not). The values given in the chart are approximate values, and are not guaranteed.

Idler Unit Specifications

(Unit: mm)

Conveyor Model	Idler Unit	Idler Dimensions			Idler Width					Idler Specifications		Bearing
	Model	Outer Diameter (φ)	Wall Thickness (t)	Shaft Indent (φ)	Standard Idler Width (Nominal) W	Standard Full Idler Length BB	Possible Width Minimum Width (W)	Possible Width Maximum Width (W)	Free Size	Material	Surface Treatment	Specifications
RA-3816	RA-3816	38.1	1.6	8.2	100 - 600	W+13	100	600	50mm increm.	Aluminum	Alumite finish	Pressed

*Free size refers to idler widths W outside of the usual 50mm increments. If a 'Y' is shown then manufacturing different sizes is possible.

Standard Shaft Specifications

Standard Shaft Specifications					
Shaft Diameter (φ) × Wall Thickness (t) Nominal (Actual)	Shaft Length (mm)	Shape	Finish	Material	Surface Treatment
8 (7.85)×0.8	W+35	Pipe	Circular/Vertical crescent pin hole	STKM11A	Tri-chrome plating

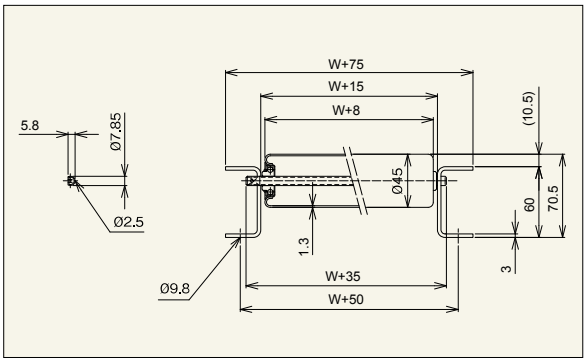
Idler Conveyor Specifications

(Unit: mm)

Frame Specifications			Manufactured Range of Standard Lengths					Standard Idler Pitch	Unit Height
Height × Width × Wall Thickness I×K×t	Material	Surface Treatment	Unit Length L 1,000	1,500	2,000	3,000	R900 Inner Curve	Pitch P	(Idler Upper Surface) H
[60×30×3	Aluminum	Alumite finish	Y	Y	Y	Y	Y	50 / 75 / 100	67

RA-4515

*The connector plate is an optional extra.



[Intended Application]
Conveying light loads
[Product Characteristics]
1) Idler diameter is φ45.0, idler pitch is min. P50.
2) Idler width (nominal) is 100W-600W in standard increments of 50mm.
3) Pressed bearing, low cost
Caution 1. Please indicate the connector plate (the connecting part between conveyors) separately when required.
Caution 2. The shaft stopper will be a wire stopper if the idler pitch is below P50.
Caution 3. If the idler pitch (P) is not cleanly divisible, then a suitable pitch (P) will be chosen.

Unit Width/Idler Strength/Approximate Conveyor Weight

Idler Width (Nominal) W (mm)		100	200	300	400	500	600
Unit Width W+75 (mm)		175	275	375	475	575	675
Strength of One Idler (kg)		50	50	42	31	25	21
Conveyor Standard Weight 3,000L (kg)	50P	14.0	18.7	23.5	28.2	33.0	37.0
	75P	11.3	14.6	17.9	21.2	24.5	27.2
Idler / Shaft Standard Weight (g)		133	205	277	349	421	493

Caution 1. Idler strength has been calculated using the standard specifications of our company's standard conveyors and shafts. Please take care if you are providing your own shafts or frame.
Caution 2. The strength changes according to the conditions of use (whether there is impact or not). The values given in the chart are approximate values, and are not guaranteed.
*Can be changed to an SUS bearing. (Model RA-4515SUS)

Idler Unit Specifications

(Unit: mm)

Conveyor Model	Idler Unit	Idler Dimensions			Idler Width					Idler Specifications		Bearing
	Model	Outer Diameter (φ)	Wall Thickness (t)	Shaft Indent (φ)	Standard Idler Width (Nominal) W	Standard Full Idler Length BB	Possible Width Minimum Width (W)	Possible Width Maximum Width (W)	Free Size	Material	Surface Treatment	Specifications
RA-4515	RA-4515	45.0	1.3	8.2	100 - 600	W+13	100	600	50mm increm.	Aluminum	Alumite finish	Pressed

*Free size refers to idler widths W outside of the usual 50mm increments. If a 'Y' is shown then manufacturing different sizes is possible.

Standard Shaft Specifications

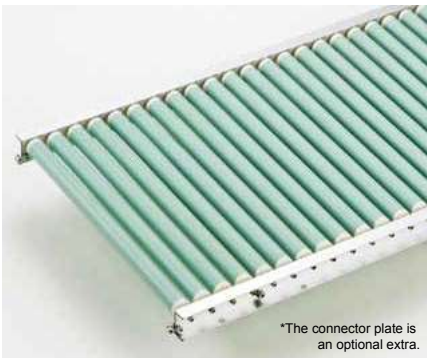
Standard Shaft Specifications					
Shaft Diameter (φ) × Wall Thickness (t) Nominal (Actual)	Shaft Length (mm)	Shape	Finish	Material	Surface Treatment
8 (7.85)×0.8	W+35	Pipe	Circular/Vertical crescent pin hole	STKM11A	Tri-chrome plating

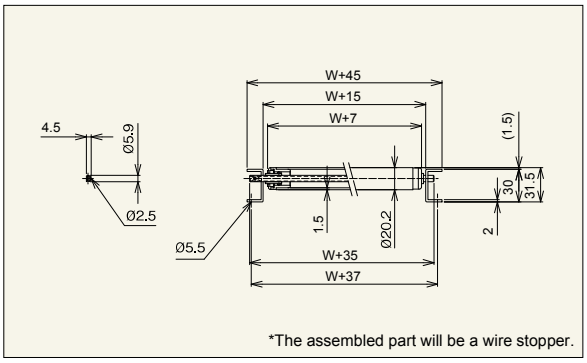
Idler Conveyor Specifications

(Unit: mm)

Frame Specifications			Manufactured Range of Standard Lengths					Standard Idler Pitch	Unit Height
Height × Width × Wall Thickness I×K×t	Material	Surface Treatment	Unit Length L 1,000	1,500	2,000	3,000	R900 Inner Curve	Pitch P	(Idler Upper Surface) H
[60×30×3	Aluminum	Alumite finish	Y	Y	Y	Y	Y	50 / 75 / 100	70.5

JR-2015B


*The connector plate is an optional extra.



*The assembled part will be a wire stopper.

[Intended Application]
Conveying very light loads
Ideal for conveying small items
[Product Characteristics]
1) Idler diameter is φ20.2, idler pitch is min. P25.
2) Idler width (nominal) is 100W-400W in standard increments of 50mm. Free sizes are also possible.
3) Aluminum [30 low-floor frame
Caution 1. Please indicate the connector fittings (the connecting part between conveyors) separately when required.
Caution 2. The shaft stopper will be a wire stopper.
Caution 3. If the idler pitch (P) is not cleanly divisible, then a suitable pitch (P) will be chosen.

Unit Width / Idler Strength / Standard Weight

Idler Width(Nominal) W (mm)		100	200	300	400
Unit Width W+45 (mm)		145	245	345	345
Strength of One Idler (kg)		11.5	10.7	10	9.2
Conveyor Standard	25P	4.3	6.4	8.5	10.7
Weight 2,000L(kg)	30P	3.8	5.7	7.5	9.4
Idler / Shaft Standard Weight (g)		33	55	78	100


*The idlers also come in ivory.

Caution 1. Idler strength has been calculated using the standard specifications of our company's standard conveyors and shafts. Please take care if you are providing your own shafts or frame.
Caution 2. The strength changes according to the conditions of use (whether there is impact or not). The values given in the chart are approximate values, and are not guaranteed.

Idler Unit Specifications

(Unit: mm)

Conveyor Model	Idler Unit	Idler Dimensions			Idler Width					Idler Specifications	Bearing
	Model	Outer Diameter (φ)	Wall Thickness (t)	Shaft Indent (φ)	Standard Idler Width (Nominal) W	Standard Full Idler Length BB	Possible Width Minimum Width (W)	Possible Width Maximum Width (W)	Free Size	Material	Specifications
JR-2015B	JR-2015B	20.2	1.5	6.2	100 - 400	W+13	40	400	Y	ABS	SUS balls in resin case

*Free size refers to idler widths W outside of the usual 50mm increments. If a 'Y' is shown then manufacturing different sizes is possible.

Standard Shaft Specifications

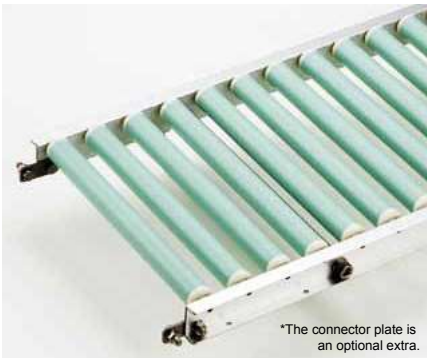
Standard Shaft Specifications					
Shaft Diameter (φ) × Wall Thickness (t) Nominal (Actual)	Shaft Length (mm)	Shape	Finish	Material	Surface Treatment
6 (5.9)×0.7	W+35	Pipe	Circular/Vertical crescent pin hole	STKM11A	Tri-chrome plating

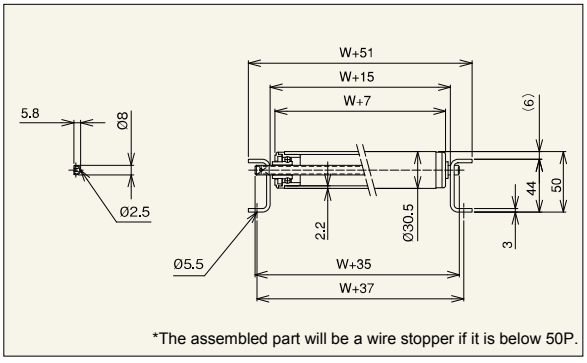
Idler Conveyor Specifications

(Unit: mm)

Frame Specifications			Manufactured Range of Standard Lengths					Standard Idler Pitch	Unit Height
Height × Width × Wall Thickness I×K×t	Material	Surface Treatment	Unit Length L 1,000	1,500	2,000	3,000	R900 Inner Curve	Pitch P	(Idler Upper Surface) H
[30×15×2	Aluminum	Alumite finish	Y	Y	Y	X	Y	25 / 30 / 40	31.5

JR-3018B


*The connector plate is an optional extra.



*The assembled part will be a wire stopper if it is below 50P.

[Intended Application]
Conveying very light loads
Ideal for conveying small items
[Product Characteristics]
1) Idler diameter is φ30.5, idler pitch is min. P40.
2) Idler width (nominal) is 100W-500W in standard increments of 50mm. Free sizes are also possible.
3) Aluminum frame
Caution 1. Please indicate the connector fittings (the connecting part between conveyors) separately when required.
Caution 2. The shaft stopper will be a wire stopper if the idler pitch is below P50.
Caution 3. If the idler pitch (P) is not cleanly divisible, then a suitable pitch (P) will be chosen.

Unit Width / Idler Strength / Standard Weight

Idler Width(Nominal) W (mm)		100	200	300	400	500
Unit Width W+51 (mm)		151	251	351	451	551
Strength of One Idler (kg)		16.5	15.7	15	14.2	13.5
Conveyor Standard	40P	7.2	10.8	14.4	18	21.6
Weight 3,000L (kg)	50P	6.2	9.2	12.2	15.1	18.1
Idler / Shaft Standard Weight (g)		64	106	149	191	233


*The idlers also come in ivory.

Caution 1. Idler strength has been calculated using the standard specifications of our company's standard conveyors and shafts. Please take care if you are providing your own shafts or frame.
Caution 2. The strength changes according to the conditions of use (whether there is impact or not). The values given in the chart are approximate values, and are not guaranteed.

Idler Unit Specifications

(Unit: mm)

Conveyor Model	Idler Unit	Idler Dimensions			Idler Width					Idler Specifications	Bearing
	Model	Outer Diameter (φ)	Wall Thickness (t)	Shaft Indent (φ)	Standard Idler Width (Nominal) W	Standard Full Idler Length BB	Possible Width Minimum Width (W)	Possible Width Maximum Width (W)	Free Size	Material	Specifications
JR-3018B	JR-3018B	30.5	2.2	8.2	100 - 500	W+13	40	500	Y	ABS	SUS balls in resin case

*Free size refers to idler widths W outside of the usual 50mm increments. If a 'Y' is shown then manufacturing different sizes is possible.

Standard Shaft Specifications

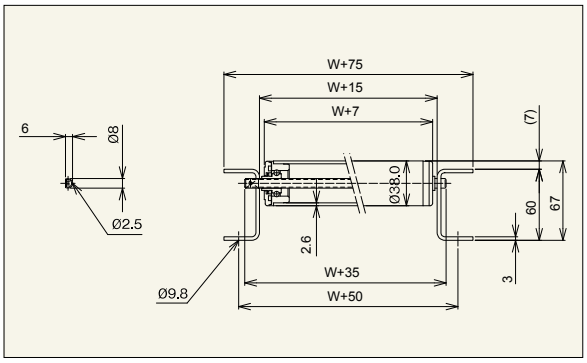
Standard Shaft Specifications					
Shaft Diameter (φ) × Wall Thickness (t) Nominal (Actual)	Shaft Length (mm)	Shape	Finish	Material	Surface Treatment
8×0.8	W+35	Pipe	Circular/Vertical crescent pin hole	SUS304	#400 Polish

Idler Conveyor Specifications

(Unit: mm)

Frame Specifications			Manufactured Range of Standard Lengths					Standard Idler Pitch	Unit Height
Height x Width x Wall Thickness I×K×t	Material	Surface Treatment	Unit Length L 1,000	1,500	2,000	3,000	R900 Inner Curve	Pitch P	(Idler Upper Surface) H
[44×18×3	Aluminum	Alumite finish	Y	Y	Y	Y	Y	40 / 50 / 75	50

JR-3823



[Intended Application]
Conveying very light loads
[Product Characteristics]
1) Idler diameter is φ38.0, idler pitch is min. P50.
2) Idler width (nominal) is 100W-500W in standard increments of 50mm. Free sizes are also possible.
3) Aluminum frame
Caution 1. Please indicate the connector hook (the connecting part between conveyors) separately when required.
Caution 2. The shaft stopper will be a wire stopper if the idler pitch is below P50.
Caution 3. If the idler pitch (P) is not cleanly divisible, then a suitable pitch (P) will be chosen.

Unit Width / Idler Strength / Standard Weight

Idler Width (Nominal) W (mm)		100	200	300	400	500
Unit Width W+75 (mm)		175	275	375	475	575
Strength of One Idler (kg)		21.5	20.7	20.0	19.2	18.5
Conveyor Standard Weight 3,000L (kg)	50P	11.4	15.1	18.7	22.4	26.1
	75P	9.6	12.2	14.8	17.3	19.9
Idler / Shaft Standard Weight (g)		90	144	198	252	306

*The idlers also come in ivory.

Caution 1. Idler strength has been calculated using the standard specifications of our company's standard conveyors and shafts. Please take care if you are providing your own shafts or frame.
Caution 2. The strength changes according to the conditions of use (whether there is impact or not). The values given in the chart are approximate values, and are not guaranteed.

Idler Unit Specifications

(Unit: mm)

Conveyor Model	Idler Unit	Idler Dimensions			Idler Width				Idler Specifications	Bearing
	Model	Outer Diameter (φ)	Wall Thickness (t)	Shaft Indent (φ)	Standard Idler Width (Nominal) W	Standard Full Idler Length BB	Possible Width Minimum Width (W)	Possible Width Maximum Width (W)	Material	Specifications
JR-3823	JR-3823	38.0	2.6	8.2	100 - 500	W+13	40	500	ABS	SUS balls in resin case

*Free size refers to idler widths W outside of the usual 50mm increments. If a 'Y' is shown then manufacturing different sizes is possible.

Standard Shaft Specifications

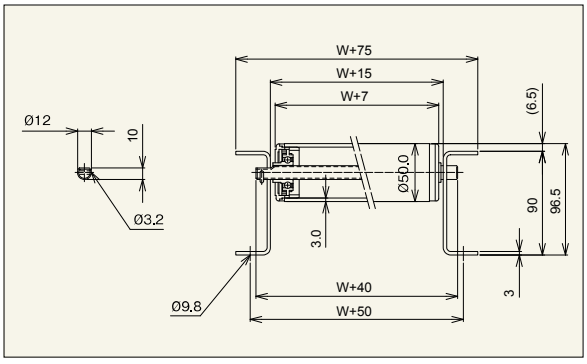
Standard Shaft Specifications					
Shaft Diameter (φ) × Wall Thickness (t) Nominal (Actual)	Shaft Length (mm)	Shape	Finish	Material	Surface Treatment
8×0.8	W+35	Pipe	Circular/Vertical crescent pin hole	SUS304	#400 Polish

Idler Conveyor Specifications

(Unit: mm)

Frame Specifications			Manufactured Range of Standard Lengths					Standard Idler Pitch	Unit Height
Height x Width x Wall Thickness I×K×t	Material	Surface Treatment	Unit Length L 1,000	1,500	2,000	3,000	R900 Inner Curve	Pitch P	(Idler Upper Surface) H
[60×30×3	Aluminum	Alumite finish	Y	Y	Y	Y	Y	50 / 75 100 / 150	67

JR-5028



[Intended Application]
Conveying very light loads
[Product Characteristics]
1) Idler diameter is φ50.3, idler pitch is min. P75.
2) Idler width (nominal) is 100W-600W in standard increments of 50mm. Free sizes are also possible.
3) Aluminum frame
Caution 1. Please indicate the connector fittings (the connecting part between conveyors) separately when required.
Caution 2. If the idler pitch (P) is not cleanly divisible, then a suitable pitch (P) will be chosen.

Unit Width / Idler Strength / Standard Weight

Idler Width (Nominal) W (mm)		100	200	300	400	500	600
Unit Width W+75 (mm)		175	275	375	475	575	675
Strength of One Idler (kg)		32	31	30.0	29.5	28.5	27.7
Conveyor Standard Weight 3,000L (kg)	75P	13.4	17.6	21.9	26.1	30.4	34.0
	100P	11.9	15.2	18.5	21.8	25.1	27.7
Idler / Shaft Standard Weight (g)		147	242	338	434	529	625

*The idlers also come in ivory.

Caution 1. Idler strength has been calculated using the standard specifications of our company's standard conveyors and shafts. Please take care if you are providing your own shafts or frame.
Caution 2. The strength changes according to the conditions of use (whether there is impact or not). The values given in the chart are approximate values, and are not guaranteed.

Idler Unit Specifications

(Unit: mm)

Conveyor Model	Idler Unit	Idler Dimensions			Idler Width				Idler Specifications	Bearing
	Model	Outer Diameter (φ)	Wall Thickness (t)	Shaft Indent (φ)	Standard Idler Width (Nominal) W	Standard Full Idler Length BB	Possible Width Minimum Width (W)	Possible Width Maximum Width (W)	Material	Specifications
JR-5028	JR-5028	50.0	3.0	12.2	100 - 600	W+13	40	600	ABS	SUS balls in resin case

*Free size refers to idler widths W outside of the usual 50mm increments. If a 'Y' is shown then manufacturing different sizes is possible.

Standard Shaft Specifications

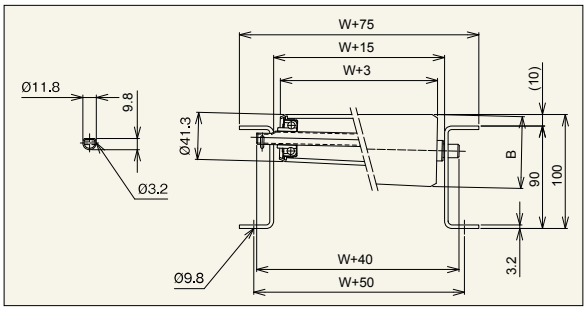
Standard Shaft Specifications					
Shaft Diameter (φ) × Wall Thickness (t) Nominal (Actual)	Shaft Length (mm)	Shape	Finish	Material	Surface Treatment
12.0×1.0	W+40	Pipe	Circular/Horizontal crescent pin hole	SUS304	#400 Polish

Idler Conveyor Specifications

(Unit: mm)

Frame Specifications			Manufactured Range of Standard Lengths					Standard Idler Pitch	Unit Height
Height x Width x Wall Thickness I×K×t	Material	Surface Treatment	Unit Length L 1,000	1,500	2,000	3,000	R900 Inner Curve	Pitch P	(Idler Upper Surface) H
[90×30×3	Aluminum	Alumite finish	Y	Y	Y	Y	Y	75 / 100 150 / 200	96.5

R-TC700



[Intended Application]
Conveying light to medium loads
[Product Characteristics]
1) For use with inner R700 (mm), with an angle of 90°.
2) Idler width (nominal) is 200W-600W in standard increments of 50mm. Free sizes are also possible.
Caution 1. Please indicate the connector plate (the connecting part between conveyors) separately when required.
Caution 2. A suitable idler pitch (P) will be chosen.

Unit Width / Idler Strength / Standard Weight

Idler Width(Nominal) W (mm)		200	300	400	500	600
Unit Width W+75 (mm)		275	375	475	575	675
Idler Small Diameter Side	Idler Outer Diameter (φ)	41.3	41.3	41.3	41.3	41.3
	Wall Thickness (t)	3.3	3.3	3.3	3.3	3.3
Idler Large Diameter Side B	Idler Outer Diameter (φ)	52.2	57.6	63.1	68.6	74.0
	Wall Thickness (t)	2.5	2.4	2.4	2.3	2.3
Strength of One Idler (kg)		170	117	87	68	56
Conveyor Standard Weight 700R×90° (kg)	75P	28.6	37.4	46.4	55.2	64.5
	100P	23.8	30.7	37.7	44.5	51.8
Idler / Shaft Standard Weight (g)		946	1,338	1,739	2,129	2,544

Caution 1. Idler strength has been calculated using the standard specifications of our company's standard conveyors and shafts. Please take care if you are providing your own shafts or frame.
Caution 2. The strength changes according to the conditions of use (whether there is impact or not). The values given in the chart are approximate values, and are not guaranteed.

Idler Unit Specifications

(Unit: mm)

Conveyor Model	Idler Unit	Idler Dimensions			Idler Width					Idler Specifications		Bearing
	Model	Small Diameter Side (φ)	Large Diameter Side B (φ)	Shaft Indent (φ)	Standard Idler Width (Nominal) W	Standard Full Idler Length BB	Possible Width Minimum Width (W)	Possible Width Maximum Width (W)	Free Size	Material	Surface Treatment	Specifications
R-TC700	R-TC700	41.3	See above	12.2	200 - 600	W+13	200	600	Y	STKM	Unichrome plating	Precision-machined

*Free size refers to idler widths W outside of the usual 50mm increments. If a 'Y' is shown then manufacturing different sizes is possible.

Standard Shaft Specifications

Standard Shaft Specifications					
Shaft Diameter (φ) × Wall Thickness (t) Nominal (Actual)	Shaft Length (mm)	Shape	Finish	Material	Plating
12 (11.8)×1.0	W+40	Pipe	Circular/Horizontal crescent pin hole	STKM11A	X

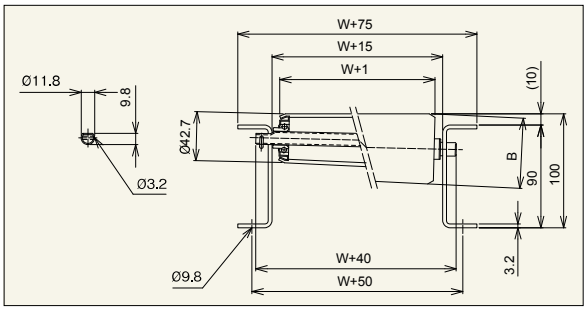
Idler Conveyor Specifications

(Unit: mm)

Frame Specifications			Curve	Standard Idler Pitch	Unit Height
Height × Width × Wall Thickness H×K×t	Material	Surface Treatment	Dimensions of Inner R	Pitch P	(Idler Upper Surface) H
[90×30×3.2	Steel	Baked-on coating	700	75 / 100 / 150	100

	Number of Idlers
75P	20
100P	15
150P	10

R-TCN900 (Lower Cost Model)



[Intended Application]
Conveying light to medium items
[Product Characteristics]
1) For use with inner R900 (mm), with an angle of 90°.
2) Idler width (nominal) is 300W-800W in standard increments of 100mm.
3) The smaller diameter side of the idler is φ42.7
Caution 1. Please indicate the connector plate (the connecting part between conveyors) separately when required.
Caution 2. A suitable idler pitch (P) will be chosen.

Unit Width / Idler Strength / Standard Weight

Idler Width(Nominal) W (mm)		300	400	500	600	700	800
Unit Width W+75 (mm)		375	475	575	675	775	875
Idler Small Diameter Side	Idler Outer Diameter (φ)	42.7	42.7	42.7	42.7	42.7	42.7
	Wall Thickness (t)	3.2	3.2	3.1	3.1	3.1	3.1
Idler Large Diameter Side B	Idler Outer Diameter (φ)	56.8	61.3	66.4	71.3	76.2	80.0
	Wall Thickness (t)	2.1	2.1	2.1	2.1	2.0	2.0
Strength of One Idler (kg)		117	87	68	56	48	42
Conveyor Standard Weight 900R×90° (kg)	75P	41.1	50.5	60.0	69.6	80.0	88.8
	100P	35.0	42.6	50.2	57.9	66.2	73.3
Idler / Shaft Standard Weight (g)		1,232	1,600	1,970	2,343	2,751	3,092

Caution 1. Idler strength has been calculated using the standard specifications of our company's standard conveyors and shafts. Please take care if you are providing your own shafts or frame.
Caution 2. The strength changes according to the conditions of use (whether there is impact or not). The values given in the chart are approximate values, and are not guaranteed.

Idler Unit Specifications

(Unit: mm)

Conveyor Model	Idler Unit	Idler Dimensions			Idler Width					Idler Specifications		Bearing	
	Model	Small Diameter Side (φ)	Large Diameter Side B (φ)	Shaft Indent (φ)	Standard Idler Width (Nominal) W	Standard Full Idler Length BB	Possible Width Minimum Width (W)	Possible Width Maximum Width (W)	Free Size	Material	Surface Treatment	Specifications Small Diameter Side	Specifications Large Diameter Side
R-TCN900	R-TCN900	42.7	See above	12.2	300 - 800	W+13	300	800	Y / X	STKM	Unichrome plating	Pressed	Precision-machined

*We can manufacture free-size idler widths as standard idlers. The idler shape may vary.

*The shape may vary with free sized idler widths.

Standard Shaft Specifications

Standard Shaft Specifications					
Shaft Diameter (φ) × Wall Thickness (t) Nominal (Actual)	Shaft Length (mm)	Shape	Finish	Material	Plating
12 (11.8)×1.0	W+40	Pipe	Circular/Horizontal crescent pin hole	STKM11A	X

Idler Conveyor Specifications

(Unit: mm)

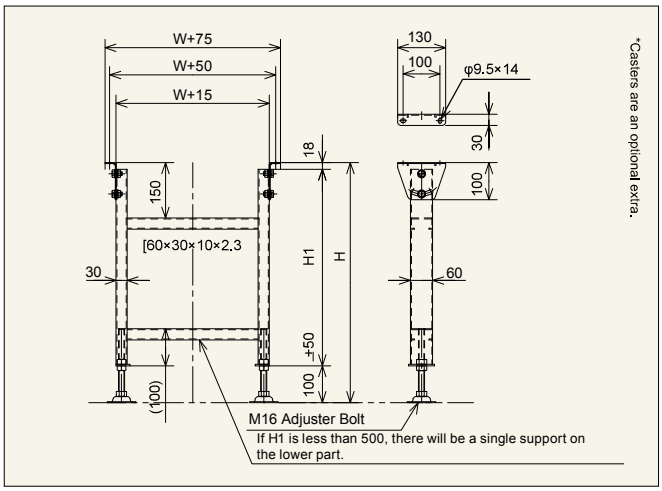
Frame Specifications			Curve	Standard Idler Pitch	Unit Height
Height × Width × Wall Thickness H×K×t	Material	Surface Treatment	Dimensions of Inner R	Pitch P	(Idler Upper Surface) H
[90×30×3.2	Steel	Baked-on coating	900	75 / 100 / 150	100

	Number of Idlers
75P	23
100P	18
150P	12

Stands for Idler Conveyor M Series

Stand Model 2B (Standard Type)

*If below 100W, the upper leg bracket will face inwards.

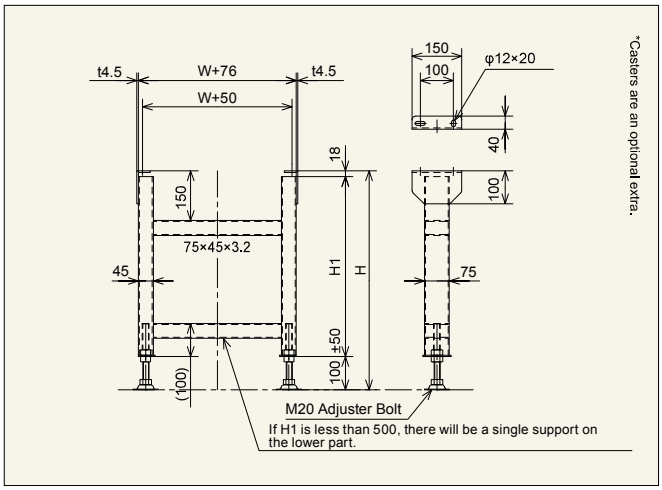


(Unit mm)

Model	Minimum - Maximum H
No.2	210 - 290
No.3	310 - 410
No.3.5	360 - 460
No.4	410 - 510
No.4.5	460 - 560
No.5	510 - 610
No.5.5	560 - 660
No.6	610 - 710
No.6.5	660 - 760
No.7	710 - 810
No.7.5	760 - 860
No.8	810 - 910
No.9	910 - 1,010
No.10	1,010 - 1,110

*Upon ordering, please specify whether or not you require a reinforcing pipe.

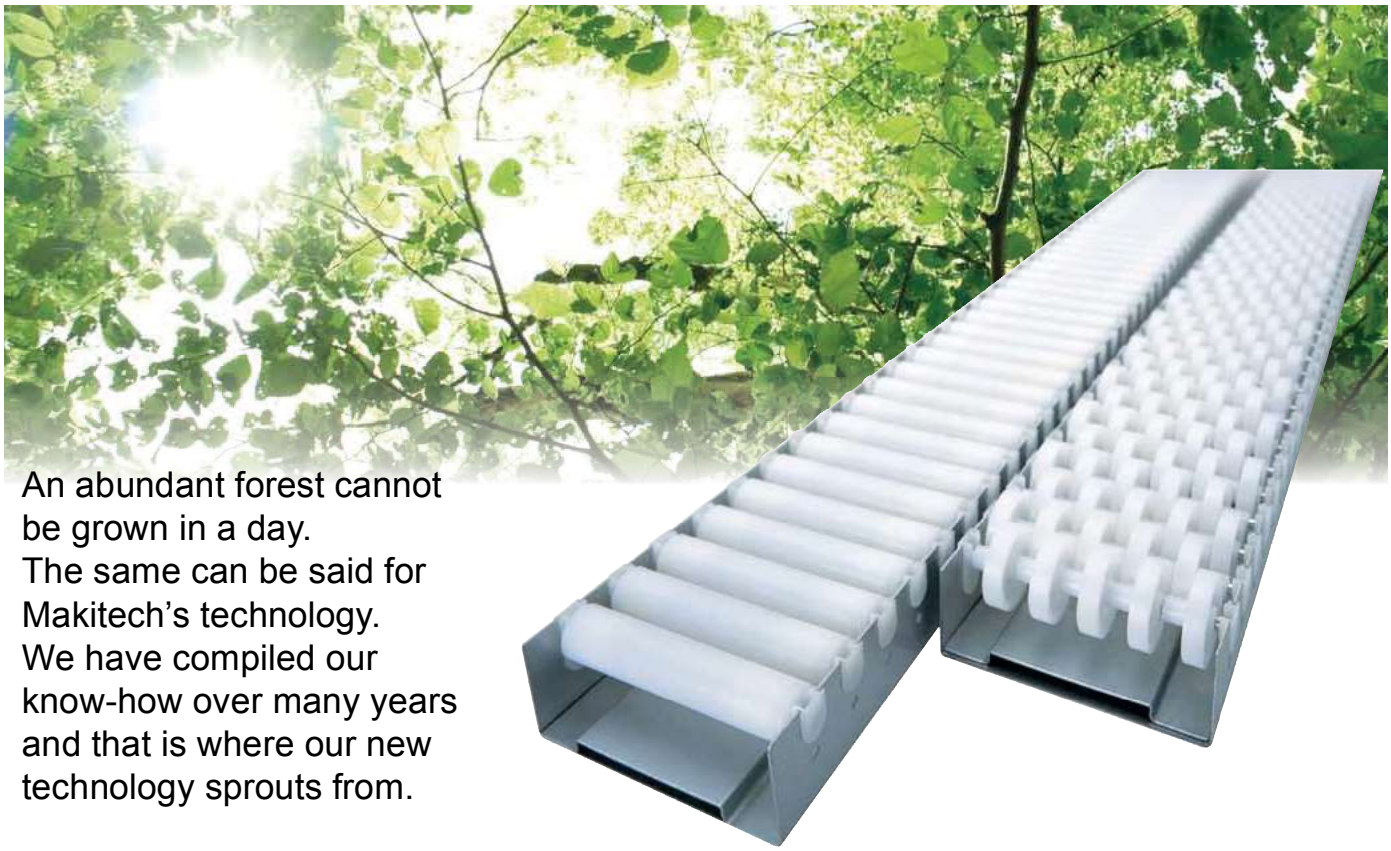
Stand Model 2FB (Strong Type)



(Unit mm)

Model	Minimum - Maximum H
No.2	210 - 310
No.3	310 - 410
No.4	410 - 510
No.5	510 - 610
No.6	610 - 710
No.7	710 - 810
No.8	810 - 910
No.9	910 - 1,010
No.10	1,010 - 1,110
No.11	1,110 - 1,210
No.12	1,210 - 1,310
No.13	1,310 - 1,410
No.14	1,410 - 1,510
No.15	1,510 - 1,610

Wheel Conveyor Table of Contents



An abundant forest cannot be grown in a day.
The same can be said for Makitech's technology.
We have compiled our know-how over many years and that is where our new technology sprouts from.

Coating Colors (Standard Colors)

● Major Green
Similar to Munsell code 2.5G6/3

Applicable Models
W-36TS, W-38TS
and others, used for most models.
Please refer to each model table.

● Super Green
Similar to Munsell code 5G 3/6

Applicable Models
SW-36S, SW-38S
SW-50S, SW-50WS
SW-38AS, SW-38GS
SW-45RS and others

● Silver

Silver Compatible Models
Turntable Bearing
Heat Resistant Models
Compatible with Silver
W-32ZZ, W-50ZZ

*Please note that the colors used in this catalog may differ slightly from the actual product due to inconsistencies in printing. Thank you for your understanding.
*Please specify the color of items to be manufactured if necessary - this also applies when requesting a color outside of our standard color ranges.