



Conveyor Roller Catalogue



ABOUT DAMON INUSTRY



ONE OF THE GLOBAL LEADING MANUFACTURER OF CONVEYOR ROLLERS

Damon Industry provides millions of rollers all over the world every year for many industries. With professional experience for decades, Damon Industry provides support for global companies to achieve efficient logistics.

Zhejiang Damon Industrial Equipment Co. Ltd, since its establishment in 2004, has always been committed to providing the highest quality conveyor rollers and services for a wide range of industries.

Damon Industry conveyor rollers are used in a variety of industries including food distribution, pharmacy, tobacco, clothing, postal express, logistics and distribution, manufacturing, rubber and airport industries. Damon Industry provides a vast range of reliable and innovative roller solutions. Our dedicated and experienced team of sales people and application engineers work with our clients to ensure the products are suitable for the application and help users improve efficiency and reduce costs.

Globally we have gained the consistent trust of our customers. These customers include influential equipment manufacturing companies and logistics system integrators. We provide customers with over 40 different categories products covering a variety of specifications to suit customers' different requirements.

Damon Industry has manufacturing bases in Asia, Europe, America and Australia, and providing customers a wide range of services such as localized manufacturing, sales and service.

With a strong global presents, Damon Industry will continue to expand and pursue a deeper market share. From introduction of complete information based ERP management system to the independent research and development of the online roller drawing system and then launched 24 h online service, we are viewing our market from a brand new perspective and are willing to share our ideas of quality and innovation with every customer.

Damon Industry was awarded "The Most Innovative Brand" in the industry of Chinese logistics equipment. Damon Industry was also selected for the "Chinese Green Warehousing and Distribution Technology & Equipment" recommended directory. We will always focus on supplying outstanding conveyor roller solutions to local and global customers.

With the starting point of "creating competitiveness for customers' logistics systems", the company is moving towards the vision of "building Damon Industries into the most influential provider and service provider in the field of core components of global logistics equipment".

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Roller Overview

Conveyor Roller Selection

Is the product suitable for a roller conveyor?

Products:

A Product with a hard and flat bottom surface such as cardboard, flat bottom plastic boxes, metal work bins, wooden pallets, etc. are suitable for roller conveyors. Product with a bottom surface that is soft or irregular such as soft boxes, handbags, components with an irregular bottom etc. are not suitable to be conveyed on a roller conveyor.













Objects with a small contact surface i.e. point contact or line contact, may damage the roller (localized abrasion, damage to the tapered sleeve, etc.)

Environment:

- 1.Plastic components are fragile at low temperatures. Different series rollers are suited to different temperatures (check characteristics for each series). When exceeding the specified temperature range, please contact us for advice.
- 2.In some circumstances of powder production, rubber lagged rollers cannot be used in a dustless environment.
- 3. Polyurethane absorbs colours easily and may not be suitable for transporting coloured packages or goods.

Roller Length:

The suitable length of the roller should be selected according to the width of the product (length of roller surface, indicated by W). For straight conveying, calculate according to the formula below:

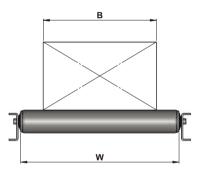
$W=B+\triangle B$

In the formula: **B** — width of goods

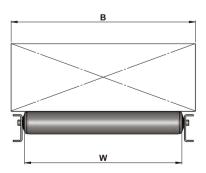
 \triangle **B** — width allowance, typically add 50 ~ 150 (mm)



For curved conveying, please refer to P78 for roller length



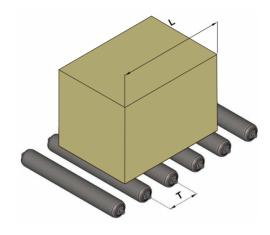
For goods with a very hard, sturdy base, where safety and normal conveying is not compromised, the width of the goods can exceed the length of the roller i.e. W≥0.8B.





Roller Pitch Selection:

To ensure the steady conveying of goods, the principles of selecting the correct roller pitch (roller centre distance, indicated by T) is a minimum 3 rollers to support the goods at any moment, i.e. $T \le 1/3L$.



- 1.Products that require steady conveying, use T = $1/4 \sim 1/5$ L or smaller.
- 2.For flexible, long and thin products, you need to check the deflection of the product. The product deflection should be less than 1/500 of the roller pitch otherwise it will greatly increase the running resistance.
- 3. The pitch of double sprocket conveyors must be calculated in multiples of 1/2 the chain pitch. For details refer to P52.
- 4.The pitch of poly-vee rollers is limited by the type of poly-vee roller. For details refer to P47.

The loading on each individual roller must not exceed its maximum static loading (This loading refers to a uniformly distributed load without impact. If applying concentrated loading, the safety index will need to be increased).

Different Conveying Modes:

- 1.Gravity conveying: Manual pushing or declined roller bed:
- ◇ Polymer bearing housing: 1200 series
 ◇ Steel bearing housing: 1100, 1800 series
- 2.Driven conveying: AC gear motor drive or motor roller drive:
- \Diamond O-belt conveyor roller: 2240, 2260 series
- ♦ Poly-vee conveyor roller: 2250 series

2890M series (medium-duty poly-vee,

steel bearing housing)

- ♦ Timing belt conveyor roller: 2280 series
- Sprocket conveyor roller:
 2214/2224 series (polymer sprocket, polymer bearing housing)
 2411/2421 series (steel sprocket, polymer bearing housing)
 2311/2321 series (steel sprocket, steel bearing housing)
- 3.Accumulating conveying: Motor drive. The product needs to accumulate on the conveyor line:
- Friction driven accumulation:
 3214/3224 series (polymer sprocket)
 3211/3221 series (steel sprocket)
- ♦ Adjustable accumulation: 3816/3826 series (steel sprocket)
- 4. Curve conveying:
- ♦ Plastic tapered roller:

1600, 2640, 2660, 2650, 2624 series



Roller Overview

Load Capacity

The main factors which determine the roller load capacity are the tube, shaft and bearing. The load capacity is dictated by the weakest of them:

- 1.Excessive load will distort the tube during roller operation which may result in permanent damage leading to unstable conveying of the product.
- 2.If the load capacity of the shaft is insufficient, it will change the adaptive capacity of the shaft and influence the running performance.
- 3.If the load exceeds the permitted load of the bearing, it will greatly reduce the bearing's lifespan.

You need to know the following design information:

- 1. The rated load capacity of a single roller is the uniformly distributed load on the roller surface (not point load).
- 2.The method of mounting the shaft to the conveyor frame. For example a internal threaded shaft has a higher load capacity than a loose mounted shaft such as a spring loaded shaft.
- 3.For each application, you need to consider how flat the product conveying surface is and any partial forces encountered during conveying.
- 4.Steel tube and stainless steel tube have similar mechanical properties with regards to load capacity so are typically considered to have same load capacity.
- 5.Increasing the thickness can strengthen the tube's impact resistance (not easy to dent), but has little influence on the roller's load capacity.
- 6.In some modes of conveying, especially in belt driven conveying, duty plays a decisive role rather than the load. The duty depends on the driving force such as belt maximum tension and chain tension.



Duty: Maximum conveying capacity of driven roller. Load: Roller's maximum load capacity.

Run Out

Run out is the key factor in how smooth the roller runs. It will influence the stability and reliability of conveying. If the run-out is excessive, it will lead to product jolting, deviation from normal conveying direction, influencing the accuracy of conveying, causing higher noise levels and may even cause partial product damage or a reduction in the conveyor's lifespan.

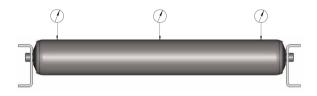
Damon's conveyor rollers utilize high quality materials and strict manufacturing processes to ensure better run out performance than specified by JB/T 7012–2008.

Radial Run-out

Unit: mm

roller length	roller	tapered roller
100~500	0.5	0.7
>500~1000	0.6	0.9
>1000~1600	1.0	1.4
>1600~2000	1.2	/
>2000~2500	1.6	/

Remark: excludes PVC and grooved rollers



Choose the maximum data from the three points as the inspection data

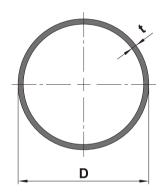




Tube Material

Steel

Following the ongoing development of tube making and welding techniques, steel tubes with precision welding replace the hot rolled seamless tube and become the most commonly used material for conveyor roller manufacturing. Precision welding tube satisfies the requirements for mechanical properties and curvature, the advantage is appearance, balance and cost.



Aluminum

The hardness of aluminium alloy is only 1/3 in comparison to steel tube and stainless steel tube. It weighs only 36% of steel tube and features water proof and rust proof properties. It is suitable for light weight applications and wet working conditions. It is also specified in some industries e.g. rubber.

PVC

The load capacity of PVC tube is much lower than steel tube of the same diameter but has the following features:

- 1. Corrosion resistant, good chemical stability.
- 2. Easy cleaning.
- 3. The roller is light, easy start-up.
- 4.Low noise, shockproof.

Common tube size:

	Unit: mm
D	t
Ф18	1.0
Ф25.6	1.0
Ф38	1.2
Ф48.6	1.5
Φ50	1.5
Ψ30	2.0
\$60	2.0
Φ60	3.0
	2.0
Φ76	3.0
	4.0
Φ80	2.0
Ψ80	3.0
\$ 00	3.0
Φ89	4.0

Stainless Steel

Welded stainless steel tube is a commonly used material for conveyor rollers. It has an attractive appearance, good corrosion resistance and is much more durable than common steel tube. The two most commonly used material numbers are as follows:

Material	304	J4-200
Magnetic	N	lo
Corrosion resistance	Excellent corrosion resistance to aqueous alkali and most organic acids and mineral acids.	Low corrosion resistance, only suitable for long periods in the common air polluted environment without chloride pollution, rust free.
Main application	Kitchen appliances, automobile parts, building materials, food production facility, hospital tools.	Mainly as decoration or replacement of zinc plated tube for some high temperature requirements.

We have used stainless steel 304 as an example only. If you have a requirement for J4-200, please contact us for code confirmation.



Roller Overview

Tube Surface Treatment

Galvanized Magnesium Aluminum Zinc

Galvanized magnesium aluminum zinc for "zinc, aluminum and magnesium ternary alloy coating". There's a kind of alveolate structural organization in the coating, so it possesses favorable corrosion resistance, rub resistance and adhesive force. Owing to its strong advantage in performance and environment-friendly galvanizing technology, Galvanized Magnesium Aluminum Zinc pipes have gained popularity among and drawn the attention of the major industries.

- 1. More favorable rust resistance of the surface, capable of coping with various humid and severe environments.
- 2. Dispensing with re-galvanization and guaranteeing continuous delivery.



Zinc Plated

Forms a homogeneous, compact, well combined zinc coating through electrolysis. Compared with other metal, zinc is economic and easy to be coated. Corrosion prevention plating allows zinc to be used widely in the area of steel parts protection, especially in preventing oxide etch and is a common surface treatment for conveyor rollers.

- 1. Trivalent chromium blue white zinc plated, conforms to green environmental standards.
- 2.The acceptable thickness of the zinc layer for rollers is 8–12 $\,\mu$ m.
- 3. Special sealing ensures our zinc plating is much more rust resistant than commonly available tube which has been proven in the salt spray tests (As pictured).
- 4.Zinc plating does not have strong resistance to abrasion. It will wear gradually during operation. If required, you can choose hard chrome plating or other surface treatments.
- 5. When rollers are shipped by sea, special packing for shipment is still needed.
- 6. Food is not permitted to come in direct contact with zinc plated surfaces.

Hard Chrome Plating

Thick chrome plating (above $20 \mu m$) is formed on the surface of the component to improve the performance of the component with regards to hardness, abrasion resistance, temperature resistance and corrosion resistance.

- 1.Excellent abrasion resistance.
- 2. The coefficient of sliding friction is only 50% compared to steel and iron.
- 3.Slight oxidation of the chrome layer leads to surface passivation, a thin and transparent film. After long periods of exposure at room temperature the passivation film causes discolouration and forms a protective layer for the chrome finish.
- 4. The chrome layer is brittle and is not suitable for bearing any large distortion which may cause breakage or spalling of the chrome layer.



Rubber Lagging/Polyurethane

For effectively improving conveying efficiency, eliminating slip such as specified area acceleration, small inclines, etc., we need to add friction between the contact surfaces. Rubber lagging is the most commonly used method. It may also provide protection to the conveyed surface of the product and reduce the conveying noise.

Natural Rubber:

- 1. High elasticity under room temperature.
- 2.Good mechanical hardness, small loss on lag.
- 3. Good electrical insulation properties.
- 4. Alkali resistant. No resistance to strong acids.
- 5.Low resistance to oil and solvent.

Nitrile Butadiene Rubber (NBR):

- 1.Excellent resistance to oil.
- 2.Low elasticity.
- 3. Poor cold and ozone resistance.
- 4.Low electrical insulation properties.

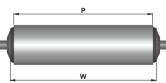
Polyurethane(PU):

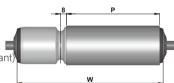
- 1. High abrasive resistance
- 2. High level of oil and water resistance.
- 3. Biological aging resistance.
- 4. High mechanical strength.

PVC /PU Sleeve

As an alternative to traditional rubber lagging, you can select PVC/PU sleeving which combine most of the properties of rubber lagging. The PVC sleeve has similar properties to rubber lagging in the areas of increased friction, bottom surface protection and reduced noise. It has a short lead time and is cost effective.

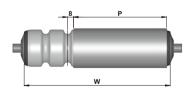
Soft PVC	Soft PVC(enhanced)	PU sleeve
For straight conveyor line (carton boxes)	Used for working conditions such as lateral force and sharp objects on the conveyed product	Used in working conditions that require higher friction and anti-splitting
Grey, RAL7042	Grey, RAL7045	Black, RAL7021
Φ50/60mm	Ф50	Omm
Shore(A) 63 ± 5	Shore(A) 80 ± 5	Shore(A) 85 ± 3
No resistanc	Resistance to oil, acid and alkali	
	2mm/3mm	
Non-conducting		
-25°C~+50°C		
Not food grade material Food grade (FDA compl		
	For straight conveyor line (carton boxes) Grey, RAL7042 Φ50/60mm Shore(A) 63±5 No resistanc	For straight conveyor line (carton boxes) Grey, RAL7042 Ф50/60mm Shore(A) 63±5 No resistance to oil and gasoline 2mm Non-conducting -25℃~+50℃







- ↑ 1. Hardness measurement environment temperature: 23 ± 2°C.
 - 2. Typically the sleeve covers the roller's outside surface (As pictured).
 - 3.If you only require a portion of roller to be covered, please confirm the length of PVC sleeve and the position.
 - 4. We recommend that the side of the roller with a groove should not be covered with a sleeve (As pictured).





Roller Overview

Shaft

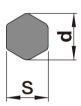
The total load on the roller is borne by the shaft which must sustain the entire weight. Damon has chosen to adopt high quality carbon structural steel as the shaft material which has a increased hardness and conforms to GB/T 905 requirements.

Shaft Size



Round shaft(mm):

d: Φ6, Φ8, Φ10, Φ12, Φ15, Φ17, Φ20, Φ25



Hexagonal shaft(mm):

S: 11hex d: Φ 12





Polymer noiseless sleeve for shaft (mm):

S: 12hex

s: (10.5)hex



Applicable mounting hole range: 11.2–11.7mm (edge to edge)

Surface Treatment

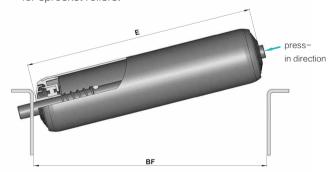
The standard shaft surface treatment is antirust oil. Zinc plated shafts are only used in stainless steel or PVC rollers.

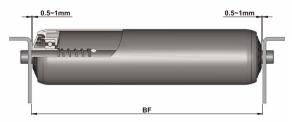
Installation Method

- 1. The roller installation method determines the complexity of roller assembly. Different installation methods also influence the load capacity of the roller.
- 2. Following are examples of common installation methods and their features. Installation method can be customized.

Spring loaded:

- 1. This is the most popular installation method for gravity rollers. Assembly and disassembly is simple and quick.
- 2.Installation clearance is required between the inner width of the frame and the roller. Different clearances are required for different roller diameters, shaft diameters and height of roller. Typically allow 0.5 ~ 1mm gap each side.
- 3. Cross braces are required between the frames to stabilize and reinforce the conveyor.
- 4. The spring loaded installation method is not recommended for sprocket rollers.





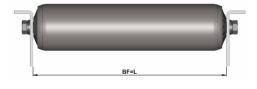


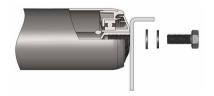
⚠ The elastic press-in type needs to be installed diagonally, and it is recommended that the roller surface is not lower than the frame surface after installation



Internal thread:

- 1. This is the typical installation method for sprocket rollers. The roller is fastened to the frame with a bolt on each end.
- 2. Assembly and disassembly is more time consuming.
- 3.Bolt hole clearance in the frame should not be too large. Typically the clearance should be 0.5mm. For example, for an M8 bolt the recommended mounting hole is Φ8.5mm.
- 4. When using an aluminium frame, the shaft should be of a large diameter with a small diameter fixing bolt to reduce the risk of the shaft breaking through the aluminium frame.





External thread:



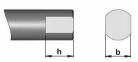
Nuts are required on the inside and outside of the frame to ensure the roller runs smoothly.

The external threaded shaft needs to be equipped with nuts by the customer

Flat milling:

- 1. The round end of the roller shaft is machined flat to fit into a slot in the frame. Assembly and disassembly is very easy.
- 2. Flat milling shaft type rollers are not suitable for sprocket rollers, poly-vee rollers or other driven roller applications.





Pressed semicircle (D shape):





Pin hole:





Roller Overview

Bearing

The bearings are the most important component of the roller. The correct choice of bearing directly determines the reliability and lifespan of the roller.

Common Types

Depending on the roller application, the roller will utilize different types of bearings with the appropriate tolerance, lubrication and seal.



Unit: mm

Bearing type	Outer ring diameter	Inner ring diameter	width
6001	28	12	8
6002	32	15	9
6202	35	15	11
6003	35	17	10
6004	42	20	12
6204	47	20	14
6205	52	25	15

Lubrication:

- 1. Good adhesion, difficult to run off and leak.
- 2.Long lubricating life, no need to replenish or change the grease.

Clearance:

The clearence of the bearing ensures the bearing runs freely, smoothly and without resistance. To ensure the bearing runs reliability and the axis remains centred, the number of balls to bear the load is maximised.

The clearence of the bearing suitable for the roller is C3. This has a large influence on the bearing's dynamic performance including noise, vibration, friction, running accuracy and lifespan.

Seal:

The purpose of the bearing seal is to prevent inner grease from leaking and outside contaminants such as dust, water and other such contaminants from entering into the inside of the bearing. The seal ensures the bearing runs safely and with the utmost sustainably under all conditions.

We recommend using the RZ sealing method which combines the advantages of both the RS and ZZ. It has the same low friction as the ZZ and also has similar seal and dustproof performance to the RS.



Roller Part Number

E.G.: $\underbrace{2.321}_{\textcircled{1}} \cdot \underbrace{\text{SHC}}_{\textcircled{2}} \cdot \underbrace{\text{ACC}}_{\textcircled{3}} - \underbrace{\frac{800}{\textcircled{4}}}_{\textcircled{5}} - \underbrace{\frac{863}{\textcircled{5}}}$

If there is no standard code, please refer to the drawing confirmation.

1 Series feature

The specifications and details including conveying method, structural features, driving mode. The first character refers to the roller's conveying method.

- 1 gravity conveyor roller series
- 2 driven conveyor roller series
- 3 accumulating conveyor roller series

2 Tube features

The specifications and details of roller tube material, diameter and surface treatment.

3 Shaft features

The specifications and details of shaft material, diameter, surface treatment and installation method.

4 Roller width

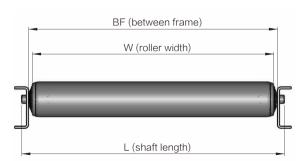
Roller's theoretical working surface. This may vary between different types of rollers. Use W to indicate width. Units are in mm.

5 Length of shaft

Roller's shaft length. Use L to indicate length. Units are in mm. In some installation methods such as internal thread, L=BF.

Frame inner width

- 1. Distance between two frames. Use BF to indicate.
- 2. Generally this is the key factor in determining the roller length.
- 3. Please use "BF" as the basis of calculating the length when selecting rollers.





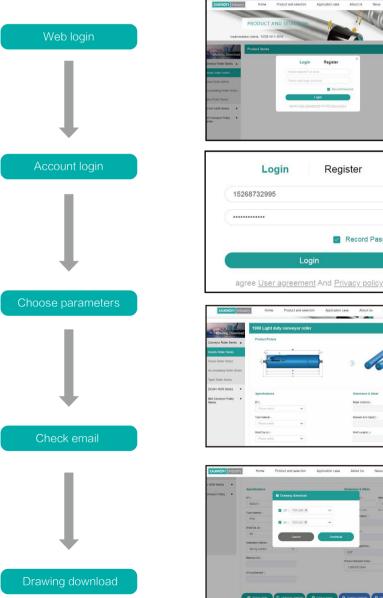
Roller Overview

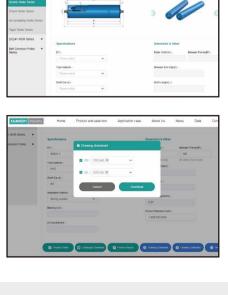
Dimensional Drawing Download

Damon Industry developed the first web based roller drawing download system which allows the customer to obtain the required information quickly, save costs of design drawings and communication and share the latest releases of Damon Industry products.

Login to Damon Industry official website to try "Drawing Download System"

http://en.damonroller.com/Home/CadDownload?roleId=201709075daba11e





Register

Record Password



Additional Design Information

- 1. The longer and wider the goods, the more reliably the goods will convey in a straight line. If the goods are very short and small, installing auxiliary devices should be considered to ensure the goods convey straight.
- 2. The taller the goods, the higher the risk of them failing over during conveying. Please consider the following solutions:
- ♦ Reduce the roller pitch to allow more rollers to support the goods.
- ♦ Avoid sudden acceleration or braking.
- When conveying on an incline or decline, check the centre of gravity of the goods to determine the risk of the goods falling off the conveyor.
- 3.Our anti-static design inside the roller will transmit the electric charge to the shaft of the roller and then discharge it through the earth connection to the conveyor frame. (only effective when rolling)Please note, do not allow the frame surface treatment to inhibit the earth connection.
- 4. The conveyors mentioned are for non-impact loading. Where impact loading occurs, you need to not only reinforce the conveyor frame and support legs but also the roller:
- ♦ Reduce the roller pitch accordingly.
- ♦ Increase the roller diameter or tube thickness.
- 5.Our standard products will satisfy your requirements of operation under normal environmental conditions and humidity. If the rollers are subject to long term exposure in a humid environment, please consider stainless steel or other water–proof and anti–corrosion materials.





GRAVITY CONVEYING

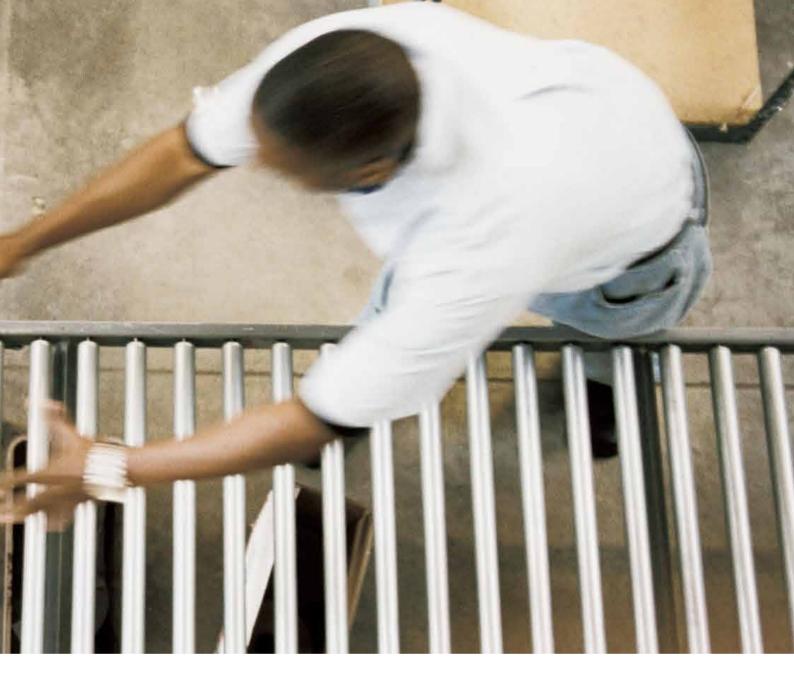
Gravity conveyors are the most popular and simple method of conveying goods. Rollers are non-powered. Goods are moved and conveyed by gravity or human force. It is usually arranged horizontally or declined.

Horizontal Arrangement:

The goods are moved by human force. Suitable for the conveying of light weight products, short distances and infrequent work.

Declined Arrangement:

The goods are conveyed in the decline direction by gravity force. Increasing the weight of the goods and the angle of the decline increases the speed of the goods.



Rollers are listed according to their series and available features.

Products features	Series	Diameter	End components	Page
PVC tube, polymer bearing housing, light and smooth running, light duty conveyors.	1900	Ф20/25/30/38/50	unn	16-17
Semi precision bearing, I the ability to withstand impact loads is better than other series.	1100	Ф18/25/38/50		18-21
Polymer bearing housing, most popular in carton conveyors, attractive and low noise.	1200	Ф38/48/50/60/76/80	-	22-26
Steel bearing housing, strong and durable, available in many diameters, high load capacity.	1800	Ф38/50/60/76/80/89		27-33





1900 Series

Light Duty Conveyor Roller

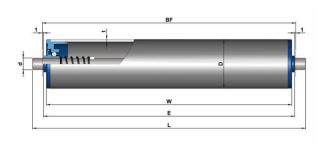
Product Features

- Very light, smooth running. Suitable for light duty conveying.
- Utilizes polymer ball bearings. The inner/outer flange of the bearing is made of POM. The ball is made of stainless steel.
- PVC tube with good chemical stability.
- Higher noise levels compared with other series rollers.
- Temperature range: -5°C ~ +40°C.
- Humidity range: 30%~ 90% RH (non-condensation).
 Please contact us if humidity out of this scope.

Specifications

Bearing Unit	
Bearing housing	POM
Ball	Stainless steel

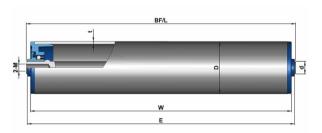




1900 Series Spring Loaded

Tube Dia.(D)	Shaft Dia.(d)			
Ф20	Ф6	BF=W+8	E=W+6	L=W+28
Ф25	Ф8	BF=W+8	E=W+6	L=W+28
Ф30	Ф8	BF=W+10	E=W+8	L=W+30
Ф38	Ф8	BF=W+10	E=W+8	L=W+30
Ф50	Ф8/10/12	BF=W+8	E=W+6	L=W+28

Tube D*T	Shaft Dia.(d)				
	Ф6	Ф8	Ф10	Ф12	
	Ф20x1.1	1.900.P2C.BAA			
	Ф25x1.8		1.900.P9C.BBA		
PVC	Ф30х1.8		1.900.PCC.BBA		
PVC	Ф38х2.0		1.900.P5C.BBA		
	Ф50x2.5		1.900.P8C.BBA	1.900.P8C.BMA	1.900.P8C.BCA



1900 Series Internal Thread

Tube Dia.(D)	Shaft Dia.(d)			
Ф50	Ф12	BF=W+8	E=W+6	L=W+8

Tubo	Tube D*T	Shaft Dia.(d)
Tube		Ф12 (M8x15)
PVC	Ф50x2.5	1.900.P8C.BCC





1100 Series

Light, Medium Duty Conveyor Roller

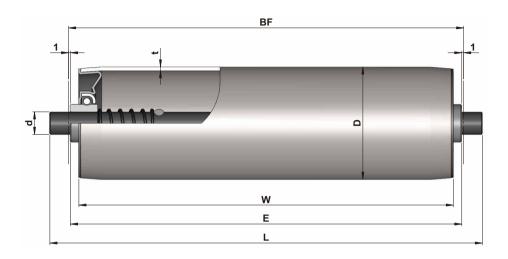
Product Features

- Fitted with specially designed semi-precision bearings.
- The ball bearing tolerance is greater than a precision ball bearing. These rollers have the ability to withstand higher impact loads than other series rollers.
- The environmental working conditions are broad. They can be used in both high and low temperature applications.
- Anti-static design.
- Slightly higher noise levels compared with precision ball bearings.
- Not suitable for carring roller & tensioning position of belt conveyor.
- Temperature range: 20℃ ~ + 80℃.

Specifications

Bearing Unit	
Semi-precision bearing	Steel, zinc plated





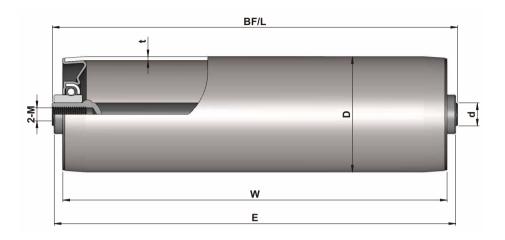
1100 Series Spring Loaded

Tube Dia.(D)	Shaft Dia.(d)			
Ф18	Ф6	BF=W+6	E=W+4	L=W+26
Ф25	Ф6/8	BF=W+12	E=W+10	L=W+32
Ф50	Ф8	BF=W+11	E=W+9	L=W+31

Tube	D*T	Shaft I	Dia.(d)
Tube	ום	Ф6	Ф8
	Ф18x1.0	1.100.S1C.AAA	
Steel, Zinc-plated	Ф25.6x1.0	1.100.SBC.AAA	1.100.SBC.ABA
	Ф50x1.5		1.100.SHC.ABA
Stainless steel	Ф25х0.7	1.100.N3C.BAA	1.100.N3C.BBA
(304)	Ф50x1.5		1.100.NHC.BBA
Aluminium	Ф25.6x1.0	1.100.ABC.AAA	1.100.ABC.ABA
/ (lattill liatti	Ф50x1.5		1.100.AHC.ABA

Φ50 rollers can be fitted with PVC sleeve (2mm)/PU sleeve (2mm/3mm),PVC/PU sleeve is not anti−static.





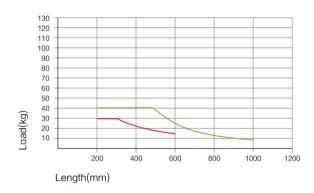
1100 Series Internal Thread

Tube Dia.(D)	Shaft Dia.(d)			
Ф25	Ф8	BF=W+12	E=W+10	L=W+12

Tube	D*T	Shaft Dia.(d)		
Tube	וטו	Ф8 (M5x10)		
Steel, zinc plated	Ф25.6x1.0	1.100.SBC.ABC		
Stainless steel (304)	Ф25х0.7	1.100.N3C.BBC		
Aluminium	Ф25.6x1.0	1.100.ABC.ABC		



1100 Series Load Capacity



- Steel tube Φ25.6x1.0, shaft Φ8, spring loaded
- Steel tube Φ25.6x1.0, shaft Φ6, spring loaded

⚠ Above data shows the static load capacity of the roller for a uniformly distributed load.





1200 Series

Universal Conveyor Roller

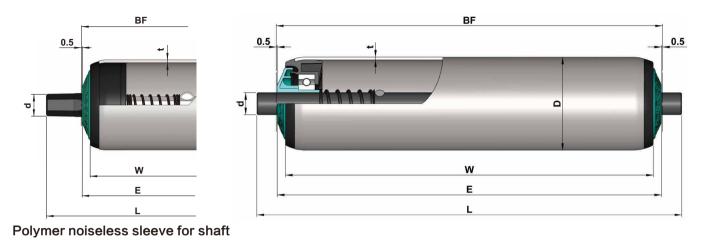
Product Features

- It is widely used and the most popular product in the gravity roller series. It is commonly used in carton conveying applications.
- The bearing end cap consists of a precision ball bearing, a polymer housing and end cap seal. Combined they provide an attractive, smooth and quite running roller.
- The design of the end cap protects the bearings by providing excellent resistance to dust and splashed water.
- Can be configured with different bearings according to the application.
 Meets the requirements for light gravity chutes.
- Suitable for the high speed applications. Maximum speed varies with roller length and diameter. Maximum speed up to 2~3m/s.
- Standard configuration with anti–static design surface impedance $\,\leqslant\,10^{\,\rm G}\,\Omega_{\,\circ}$
- Temperature range: -5°C ~ + 40°C.
- Humidity range: 30%~ 90% RH (non-condensation).
 Please contact us if humidity out of this scope.

Specifications

Bearing unit	
Bearing housing	Polyamide, black
End cap	Polypropylene, Damon Green
Precision ball bearing	6002/6003/6205





1200 Series Spring Loaded

Tube Dia.(D)	Shaft Dia.(d)			
Ф38	Ф8/10/12/11hex	BF=W+10	E=W+9	L=W+31
Ф40	Ф10/12/11hex	BF=W+10	E=W+9	L=W+31
Ф48	11hex Polymer noiseless sleeve for shaft	BF=W+10	E=W+9	L=W+49
±50	Ф8/10/12/11hex	BF=W+10	E=W+9	L=W+31
Ф50	11hex Polymer noiseless sleeve for shaft	BF=W+10	E=W+9	L=W+49
Ф60	Ф10/12/11hex	BF=W+10	E=W+9	L=W+31

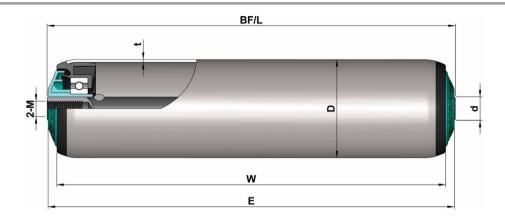
		Shaft Dia.(d)					
Tube	D*T	Φ8	Ф10	11hex	11hex Polymer noiseless sleeve for shaft	Ф12	
	Ф38х1.2	1.200.SDC.ABA	1.200.SDC.AMA	1.200.SDC.AFA	1.200.SDC.AHA	1.200.SDC.ACA	
	Ф48.6х1.5		1.200.JGA.AMA	1.200.JGA.AFA	1.200.JGA.AHA	1.200.JGA.ACA	
Steel, zinc plated	Ф50x1.5	1.200.SHC.ABA	1.200.SHC.AMA	1.200.SHC.AFA	1.200.SHC.AHA	1.200.SHC.ACA	
	Ф50x2.0		1.200.SWC.AMA	1.200.SWC.AFA	1.200.SWC.AHA	1.200.SWC.ACA	
	Ф60х2.0		1.200.SOC.AMA	1.200.SOC.AFA	1.200.SOC.AHA	1.200.SOC.ACA	
Ctaal sina platad with	Ф50x1.5	1.200.SHD.ABA	1.200.SHD.AMA	1.200.SHD.AFA	1.200.SHD.AHA	1.200.SHD.ACA	
Steel, zinc plated, with	Ф50x2.0		1.200.SWD.AMA	1.200.SWD.AFA	1.200.SWD.AHA	1.200.SWD.ACA	
PVC sleeve (2mm)	Ф60х2.0			1.200.SOD.AFA	1.200.SOD.AHA	1.200.SOD.ACA	
	Ф38х1.2	1.200.NDC.BBA	1.200.NDC.BMA	1.200.NDC.BFA	1.200.NDC.AHA	1.200.NDC.BCA	
Ctairless steel	Ф48.6х1.5		1.200.NGC.BMA	1.200.NGC.BFA	1.200.NGC.AHA	1.200.NGC.BCA	
Stainless steel	Ф50x1.5	1.200.NHC.BBA	1.200.NHC.BMA	1.200.NHC.BFA	1.200.NHC.AHA	1.200.NHC.BCA	
(304)	Ф60х2.0		1.200.NOC.BMA	1.200.NOC.BFA	1.200.NOC.AHA	1.200.NOC.BCA	
Aluminium	Ф50x1.5	1.200.AHC.ABA	1.200.AHC.AMA	1.200.AHC.AFA	1.200.AHC.AHA	1.200.AHC.ACA	
	Ф60х2.0		1.200.AOC.AMA	1.200.AOC.AFA	1.200.AOC.AHA	1.200.AOC.ACA	
PVC	Ф50х2.5	1.200.P8C.BBA	1.200.P8C.BMA	1.200.P8C.BFA	1.200.P8C.AHA	1.200.P8C.BCA	

♣ Φ50 rollers can be fitted with PU sleeve (2mm/3mm),PVC/PU sleeve is not anti-static.

A Polymer noiseless sleeve for shaft roller:

- ① Actual frame width= E+ (1~3) mm, Excessive width inside the frame will damage the shaft core and roller
- ② Applicable mounting hole range: 11.2~11.7mm (edge to edge)



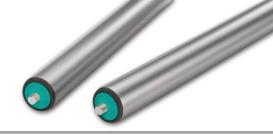


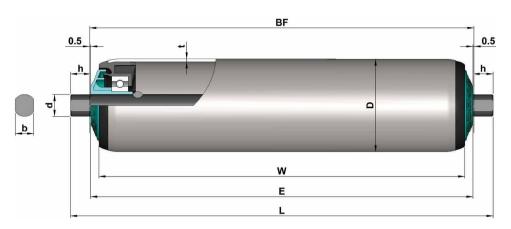
1200 Series Internal Thread

Tube Dia.(D)	Shaft Dia.(d)			
Ф38	Ф14	BF=W+10	E=W+9	L=W+10
Ф48	Ф14/15	BF=W+10	E=W+9	L=W+10
Ф50	Ф14/15/17	BF=W+10	E=W+9	L=W+10
Ф60	Ф14/15/17	BF=W+10	E=W+9	L=W+10
Ф76	Ф20	BF=W+12	E=W+11	L=W+12
Ф80	Ф20	BF=W+12	E=W+11	L=W+12

Tube	D*T	Shaft Dia.(d)					
Tube	ויט	Ф14 (М8)	Ф15 (M10x20)	Ф17 (M12x25)	Ф20 (M12x25)		
	Ф38х1.2	1.200.SDC.BLC					
	Ф48.6х1.5	1.200.JGA.BLC	1.200.JGA.ADC				
	Ф50x1.5	1.200.SHC.BLC	1.200.SHC.ADC	1.200.SHC.AGC			
Steel, zinc plated	Ф50x2.0	1.200.SWC.BLC	1.200.SWC.ADC				
Steel, zinc plated	Ф60х2.0	1.200.SOC.BLC	1.200.SOC.ADC				
	Ф60х3.0			1.200.JLA.AGC			
	Ф76х3.0				1.200.JSA.AEC		
	Ф80х3.0				1.200.J6A.AEC		
Ctaal Tipe plated with	Ф50x1.5	1.200.SHD.BLC	1.200.SHD.ADC				
Steel, zinc plated, with PVC sleeve (2mm)	Ф50x2.0	1.200.SWD.BLC	1.200.SWD.ADC				
PVC Sieeve (ZITIITI)	Ф60х2.0	1.200.SOD.BLC	1.200.SOD.ADC				
	Ф38х1.2	1.200.NDC.BLC					
	Ф48.6х1.5	1.200.NGC.BLC	1.200.NGC.BDC				
Stainless steel	Ф50x1.5	1.200.NHC.BLC	1.200.NHC.BDC	1.200.NHC.BGC			
(304)	Ф60х2.0	1.200.NOC.BLC	1.200.NOC.BDC				
	Ф76х3.0				1.200.NSC.BEC		
Aluminium	Ф50x1.5	1.200.AHC.BLC	1.200.AHC.ADC				
Aluminium	Ф60х2.0	1.200.AOC.BLC	1.200.AOC.ADC				
PVC	Ф50х2.5	1.200.P8C.BLC	1.200.P8C.BDC				

🍻 Φ50 rollers can be fitted with PU sleeve (2mm/3mm),PVC/PU sleeve is not anti-static.





1200 Series Milled Flats

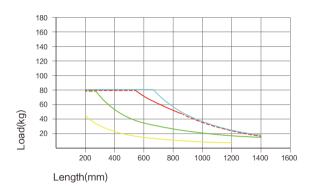
Tube Dia.(D)	Shaft Dia.(d)			
Ф38	Ф12	BF=W+10	E=W+9	L=W+31
Ф48	Ф12/15	BF=W+10	E=W+9	L=W+31
Ф50	Ф12/15/17	BF=W+10	E=W+9	L=W+31
Ф60	Ф12/15/17	BF=W+10	E=W+9	L=W+31
Ф76	Ф20	BF=W+12	E=W+11	L=W+41
Ф80	Ф20	BF=W+12	E=W+11	L=W+41

Tube	D*T			Shaft Dia.(d)	
Tube	וטו	Φ12 (b/h=10/11)	Ф15 (b/h=12/11)	Φ17(b/h=15/11)	Ф20 (b/h=16/15)
	Ф38х1.2	1.200.SDC.ACB			
	Ф48.6х1.5	1.200.JGA.ACB	1.200.JGA.ADB		
	Ф50x1.5	1.200.SHC.ACB	1.200.SHC.ADB	1.200.SHC.AGB	
	Ф50x2.0	1.200.SWC.ACB	1.200.SWC.ADB		
Steel, zinc plated	Ф60х2.0	1.200.SOC.ACB	1.200.SOC.ADB		
	Ф60х3.0			1.200.JLA.AGB	
	Ф76х3.0				1.200.JSA.AEB
	Ф80х3.0				1.200.J6A.AEB
Ctool Tipo plotod with	Ф50x1.5	1.200.SHD.ACB	1.200.SHD.ADB		
Steel, zinc plated, with	Ф50x2.0	1.200.SWD.ACB	1.200.SWD.ADB		
PVC sleeve (2mm)	Ф60х2.0	1.200.SOD.ACB	1.200.SOD.ADB		
	Ф38х1.2	1.200.NDC.BCB			
Stainless steel	Ф50x1.5	1.200.NHC.BCB	1.200.NHC.BDB	1.200.NHC.BGB	
(304)	Ф60х2.0	1.200.NOC.BCB	1.200.NOC.BDB		
(001)	Ф76х3.0				1.200.NSC.BEB
Aluminium	Ф50x1.5	1.200.AHC.ACB	1.200.AHC.ADB		
/ \lartiii ilarti	Ф60х2.0	1.200.AOC.ACB	1.200.AOC.ADB		
PVC	Ф50x2.5	1.200.P8C.BCB	1.200.P8C.BDB		

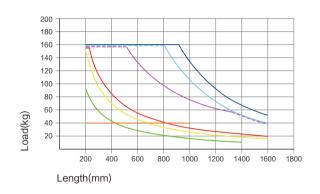
🍻 Φ50 rollers can be fitted with PU sleeve (2mm/3mm),PVC/PU sleeve is not anti-static.



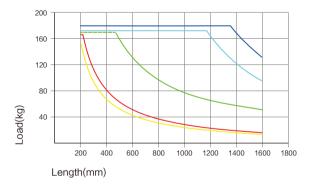
1200 Series Load Capacity



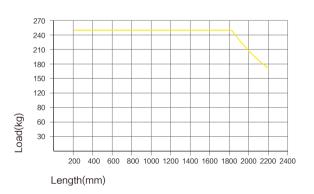
- Steel tube Φ38x1.2, shaft Φ14, internal thread
- Steel tube Φ38x1.2, shaft Φ12, spring loaded
- Steel tube Φ38x1.2, shaft Φ10, spring loaded
- Steel tube Φ38x1.2, shaft Φ8, spring loaded



- Steel tube Φ50x2.0, shaft Φ14/15, internal thread
- Steel tube Φ50x1.5, shaft Φ14/15, internal thread
- Steel tube Φ50x1.5, shaft Φ15, milled flats
- Steel tube Φ50x1.5, shaft Φ12, spring loaded
- Steel tube Φ50x1.5, shaft11hex, spring loaded
- Steel tube Φ50x1.5, shaft Φ10, spring loaded
- Steel tube Φ50x1.5, shaft11hex, Polymer noiseless sleeve for shaft

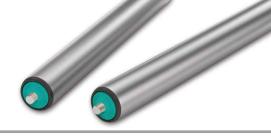


- Steel tube Φ60x3.0, shaft Φ17, internal thread
- Steel tube Φ60x2.0, shaft Φ14/15, internal thread
- Steel tube Φ60x2.0, shaft Φ15, milled flats
- Steel tube Φ60x2.0, shaft Φ12, spring loaded
- Steel tube Φ60x2.0, shaft 11hex, spring loaded



Steel tube Φ80x3.0, shaft Φ20, internal thread Steel tube Φ76x3.0, shaft Φ20, internal thread

Above data shows the static load capacity of the roller for a uniformly distributed load.





1800 Series

Gravity Conveyor Roller

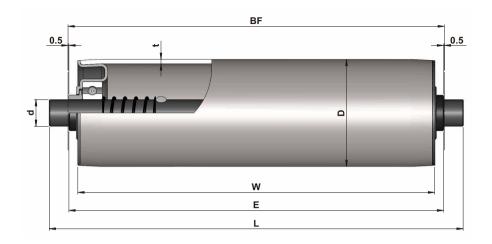
Product Features

- The precision ball bearing is secured in the steel stamped bearing housing. The bearing is tight and durable. Able to withstand greater axial forces than a plastic bearing unit.
- The environmental working conditions are broad. They can be used in both high and low temperature applications.
- Complete range of tube diameters available. High load capacity.
- Anti-static design.
- Not suitable for carring roller & tensioning position of belt conveyor.
- Temperature range: -5℃ ~ +40℃,Remove the retaining ring on both sides (black), the temperature can reach -30 ℃~+80 ℃.

Specifications

Bearing unit	
Bearing housing	Steel, zinc plated
Precision ball bearing	6001/6202/6004/6204
Ground sleeve	Polyamide, black





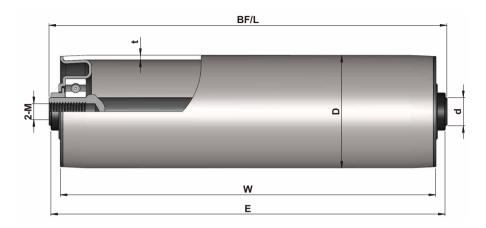
1800 Series Spring Loaded

Tube Dia.(D)	Shaft Dia.(d)			
Ф38	Ф12	BF=W+10	E=W+9	L=W+31
Ф50	Ф12	BF=W+9	E=W+8	L=W+30
Ф50	Ф15	BF=W+11	E=W+10	L=W+32
Ф60	Ф12/15	BF=W+11	E=W+10	L=W+32
Ф76	Ф15	BF=W+10	E=W+9	L=W+31
Ф76	Ф20	BF=W+11	E=W+10	L=W+40
Ф80	Ф20	BF=W+11	E=W+10	L=W+40
Ф89	Ф20	BF=W+11	E=W+10	L=W+40

Tube	D*T	Shaft Dia.(d)		
		Ф12	Ф15	Ф20
	Ф38х1.2	1.800.SDC.ACA		
	Ф50x1.5	1.800.SHC.ACA	1.800.SHC.ADA	
	Ф50x2.0	1.800.SWC.ACA	1.800.SWC.ADA	
	Ф60х2.0	1.800.SOC.ACA	1.800.SOC.ADA	1.800.SOC.AEA
	Ф60х3.0		1.800.JLA.ADA	
Steel, zinc plated	Ф76х3.0		1.800.JSA.ADA	1.800.JSA.AEA
	Ф76х4.0			1.800.JRB.AEA
	Ф80х3.0			1.800.J6A.AEA
	Ф89х3.0			1.800.JYA.AEA
	Ф89х4.0			1.800.JUB.AEA
High-strength steel, Zinc-plated	Ф76x2.0			1.800.GXA.AEA
rlight-strength steer, Zinc-plated	Ф80x2.0			0
	Ф38х1.2	1.800.NDC.BCA		
Stainless steel	Ф50x1.5	1.800.NHC.BCA	1.800.NHC.BDA	
(304)	Ф60х2.0	1.800.NOC.BCA	1.800.NOC.BDA	
	Ф76х3.0		1.800.NSC.BDA	1.800.NSC.BEA
	Ф38.2х1.5	1.800.AFC.ACA		
	Ф50x1.5	1.800.AHC.ACA	1.800.AHC.ADA	
Aluminium	Ф60х2.0	1.800.AOC.ACA	1.800.AOC.ADA	
, warming it	Ф76х3.0		1.800.ASC.ADA	1.800.ASC.AEA
	Ф80х4.0			1.800.ATC.AEA

Φ50 \ 60mm rollers can be fitted with PVC sleeve (2mm).
 Φ50 rollers can be fitted with PU sleeve ((2mm/3mm).
 PVC/PU sleeve is not anti-static.





1800 Series Internal Thread

Tube Dia.(D)	Shaft Dia.(d)			
Ф38	Ф12	BF=W+10	E=W+9	L=W+10
Ф50	Ф12	BF=W+9	E=W+8	L=W+9
Ф50	Ф15	BF=W+11	E=W+10	L=W+11
Ф60	Ф12/15	BF=W+11	E=W+10	L=W+11
Ф76	Ф15	BF=W+10	E=W+9	L=W+10
Ф76	Ф20	BF=W+11	E=W+10	L=W+11
Ф80	Ф20	BF=W+11	E=W+10	L=W+11
Ф89	Ф20/25	BF=W+11	E=W+10	L=W+11

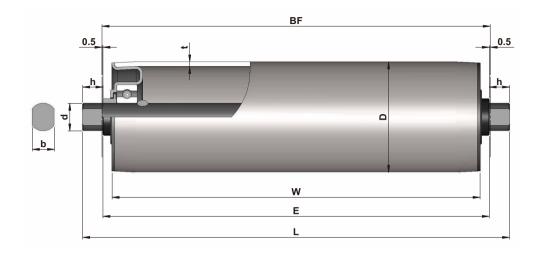
Tube	D*T	Shaft Dia.(d)			
Tube	וט	Ф12 (M8x15)	Ф15 (M10x20)	Ф20 (M12x25)	Ф25 (M12x25)
	Ф38х1.2	1.800.SDC.ACC			
	Ф50x1.5	1.800.SHC.ACC	1.800.SHC.ADC		
	Ф50x2.0	1.800.SWC.ACC	1.800.SWC.ADC		
	Ф60х2.0	1.800.SOC.ACC	1.800.SOC.ADC	1.800.SOC.AEC	
Steel, zinc plated	Ф60х3.0		1.800.JLA.ADC		
, ,	Ф76х3.0		1.800.JSA.ADC	1.800.JSA.AEC	
	Ф76х4.0			1.800.JRB.AEC	
	Ф80х3.0			1.800.J6A.AEC	
	Ф89х3.0			1.800.JYA.AEC	1.800.JYA.AKC
	Ф89х4.0			1.800.JUB.AEC	
High-strength steel,	Ф76x2.0			1.800.GXA.AEC	
Zinc-plated	Ф80х2.0			0	
	Ф38х1.2	1.800.NDC.BCC			
Stainless steel	Ф50x1.5	1.800.NHC.BCC	1.800.NHC.BDC		
(304)	Ф60х2.0	1.800.NOC.BCC	1.800.NOC.BDC	1.800.NOC.BEC	
	Ф76х3.0		1.800.NSC.BDC	1.800.NSC.BEC	
Aluminium	Ф38.2х1.5	1.800.AFC.ACC			
	Ф50x1.5	1.800.AHC.ACC	1.800.AHC.ADC		
	Ф60х2.0	1.800.AOC.ACC	1.800.AOC.ADC	1.800.AOC.AEC	
	Ф76х3.0		1.800.ASC.ADC	1.800.ASC.AEC	
	Ф80х4.0			1.800.ATC.AEC	



🏂 Φ50、60mm rollers can be fitted with PVC sleeve (2mm). Φ 50 rollers can be fitted with PU sleeve ((2mm/3mm).

PVC/PU sleeve is not anti-static.





1800 Series Milled Flats

Tube Dia.(D)	Shaft Dia.(d)			
Ф38	Ф12	BF=W+10	E=W+9	L=W+31
Ф50	Ф12	BF=W+9	E=W+8	L=W+30
Ф50	Ф15	BF=W+11	E=W+10	L=W+32
Ф60	Ф12/15	BF=W+11	E=W+10	L=W+32
Ф76	Ф15	BF=W+10	E=W+9	L=W+31
Ф76	Ф20	BF=W+11	E=W+10	L=W+40
Ф80	Ф20	BF=W+11	E=W+10	L=W+40
Ф89	Ф20/25	BF=W+11	E=W+10	L=W+40

Tube	D*T	Shaft Dia.(d)			
	ויים	Ф12 (b/h=10/11)	Ф15 (b/h=12/11)	Ф20 (b/h=16/15)	Ф25 (b/h=22/15)
	Ф38х1.2	1.800.SDC.ACB			
	Ф50x1.5	1.800.SHC.ACB	1.800.SHC.ADB		
	Ф50x2.0	1.800.SWC.ACB	1.800.SWC.ADB		
	Ф60х2.0	1.800.SOC.ACB	1.800.SOC.ADB	1.800.SOC.AEB	
	Ф60х3.0		1.800.JLA.ADB		
Steel, Zinc-plated	Ф76х3.0		1.800.JSA.ADB	1.800.JSA.AEB	
	Ф76х4.0			1.800.JRB.AEB	
	Ф80х3.0			1.800.J6A.AEB	
	Ф89х3.0			1.800.JYA.AEB	1.800.JYA.AKB
	Ф89х4.0			1.800.JUB.AEB	
High-strength steel,	Ф76x2.0			1.800.GXA.AEB	
Zinc-plated	Ф80x2.0			0	
	Ф38х1.2	1.800.NDC.BCB			
Stainless steel	Ф50x1.5	1.800.NHC.BCB	1.800.NHC.BDB		
(304)	Ф60х2.0	1.800.NOC.BCB	1.800.NOC.BDB	1.800.NOC.BEB	
	Ф76х3.0		1.800.NSC.BDB	1.800.NSC.BEB	
	Ф38.2х1.5	1.800.AFC.ACB			
	Ф50x1.5	1.800.AHC.ACB	1.800.AHC.ADB		
Aluminium	Ф60х2.0	1.800.AOC.ACB	1.800.AOC.ADB	1.800.AOC.AEB	
	Ф76х3.0		1.800.ASC.ADB	1.800.ASC.AEB	
	Ф80х4.0			1.800.ATC.AEB	

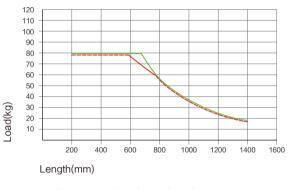
Φ50、60mm rollers can be fitted with PVC sleeve (2mm).

PVC/PU sleeve is not anti-static.

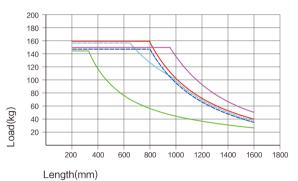
Φ50 rollers can be fitted with PU sleeve ((2mm/3mm).



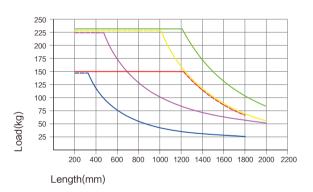
1800 Series Load Capacity



■ Steel tube Φ38x1.2, shaft Φ12, internal thread ■ Steel tube Φ38x1.2, shaft Φ12, spring loaded



- Steel tube Φ50x1.5, shaft Φ15, internal thread
- Steel tube Φ 50x1.5, shaft Φ 15, spring loaded
- Steel tube Φ50x2.0, shaft Φ12, internal thread Steel tube Φ 50x1.5, shaft Φ 12, internal thread
- Steel tube Φ50x1.5/2.0, shaft Φ12, spring loaded

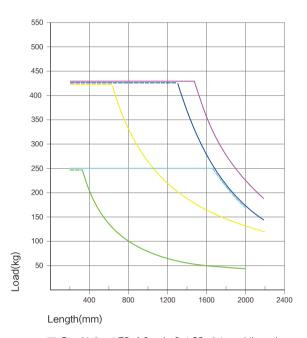


- Steel tube Φ60x3.0, shaft Φ15, internal thread
- Steel tube Φ60x2.0, shaft Φ15, internal thread
- Steel tube Φ60x3.0, shaft Φ15, spring loaded
- Steel tube Φ60x2.0, shaft Φ12, internal thread
- Steel tube Φ60x2.0, shaft Φ12, spring loaded

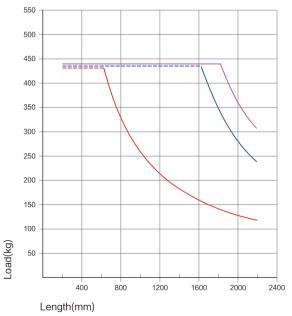
⚠ Above data shows the static load capacity of the roller for a uniformly distributed load.



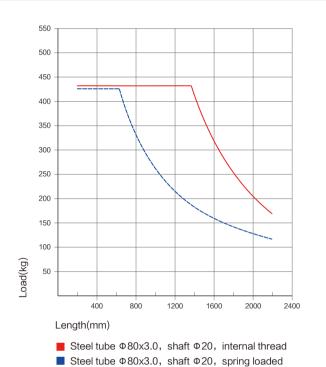
1800 Series Load Capacity



- Steel tube Φ76x4.0, shaft Φ20, internal thread
- Steel tube Φ76x3.0, shaft Φ20, internal thread
- Steel tube Φ76x3.0/4.0, shaft Φ20, spring loaded
- Steel tube Φ76x3.0, shaft Φ15, internal thread
- Steel tube Φ76x3.0, shaft Φ15, spring loaded



- Steel tube Φ89x4.0, shaft Φ20, internal thread
- Steel tube Φ89x3.0, shaft Φ20, internal thread
- Steel tube Φ89x3.0/4.0, shaft Φ20, spring loaded
- ⚠ Above data shows the static load capacity of the roller for a uniformly distributed load.









DRIVEN CONVEYING

Driven conveying transports goods steadily, reliably and with accurate speed. According to the driving method, it may be classified as "belt driven conveying" or "chian driven conveying".

Belt driven:

Reliable, low noise, low environmental pollution, able to run at high speed. Oily working conditions should be avoided.

Chain driven:

High load capacity. Suitable for a wide range of working environments including oil, water and high temperature however the chain is easily worn in a dusty environment. The conveying speed should not exceed 30m/min.



Rollers are listed according to their series and available features.

Troilers are listed according to their series and available reatares.								
Product features	Series	Diameter	Driving Element	Page				
O-belt drive, light/medium duty conveying, widely applied in carton conveying, custom groove position.	2230/2240	Ф48/50/60	300-	36-41				
O-belt pulley, light/medium duty conveying, reliable.	2260	Ф50		42-45				
Polymer poly-vee pulley, high speed, low noise.	2250	Ф48/50		46-49				
Steel poly-vee pulley, steel bearing housing, medium-duty conveying, more adaptable in various environments.	2890M	Ф50		50-52				
Polymer timing belt pulley,noslip , high speed, low noise	2280	Ф50		53-55				
Polymer sprocket, polyamide bearing housing, medium duty conveying, low noise	2214/2224	Ф50/60		56-58				
Steel sprocket, polymer bearing housing, medium/heavy duty conveying, attractive look.	2411/2421	Ф50/60/76/80		59-62				
Steel sprocket, steel bearing housing, heavy duty conveying, strong and durable, suitable for many working environments.	2311/2321	Ф50/60/76/80/89		63-67				



2230/2240 Series Driven Conveyor Roller



2230/2240 Series

Single/Double Grooved Conveyor Roller

Product Features

- Compared with chain drive, the O-belt drive has the advantages of low noise and high speed. It is widely used for light/medium duty carton conveying.
- The bearing end cap consists of a precision ball bearing, a polymer housing and end cap seal. Combined they provide an attractive, smooth and quite running roller.
- The design of the end cap protects the bearings by providing excellent resistance to dust and splashed water.
- The position of the grooves can be customized.
- Standard configuration with anti–static design surface impedance \leq 10 6 Ω $_{\circ}$
- Temperature range: -5°C ~ +40°C.
- Humidity range: 30%~ 90% RH (non-condensation).
 Please contact us if humidity out of this scope.

Specifications

Bearing Unit	
Bearing housing	Polyamide,black
End cap	Polyproylene, Damon green
Precision ball bearing	6002

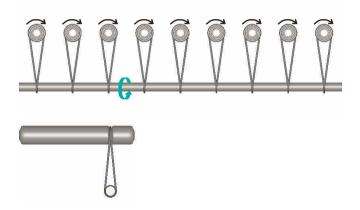


About Conveying Duty

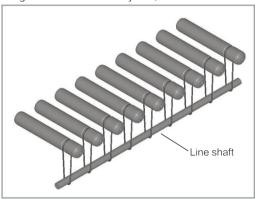
- 1.Duty is the maximum conveying capacity of driven roller (it's not roller's maximum load capacity)
- 2.In driven conveying, duty plays a decisive role.
- 3. The duty capacity of the rollers depend on the drive method and drive capacity of the O-belt. single goods shaoul not over 30 kg.

Single Grooved Drive

- 1. The driving force for each roller is transmitted separately from the line shaft. It has a higher duty capacity in comparison to the double groove drive. Ideally suited for long conveyors. The maximum conveying length of each unit can be over 10 meters.
- 2. When used in curve conveyors, the line shaft is connected by universal joint couplings.
- 3. Maintenance is relatively difficult as you need to disassemble the entire line shaft.



Single Grooved Drive Layout:



Double Grooved Drive

- 1. Simple arrangement. Easy installation and maintenance.
- 2. The driving torque deteriorates rapidly from roller to roller. Typically single MDR can only drive 7 to 8 rollers. The weight of single items to be conveyed should not exceed 30kg.
- 3. The preloading value is required for the length of O-belt loop. It may vary according to the different O-belt suppliers. Please check the specifications with the O-belt supplier. Typically, reduce the preloading value by 5% 8% from the theoretical length of loop.

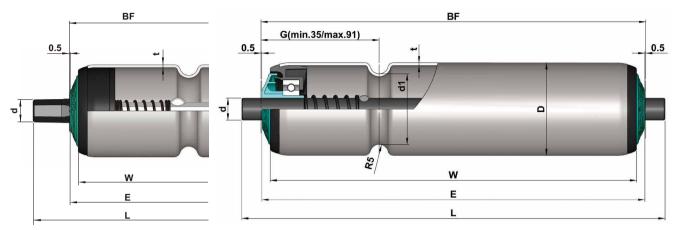
Double Grooved Drive Layout:







2230/2240 Series Driven Conveyor Roller



Polymer noiseless sleeve for shaft

2230 Series Spring Loaded

Tube Dia.(D)	Shaft Dia.(d)				G	d1
+ 40	Ф10/12/11hex	BF=W+10	E=W+9	L=W+31	65	Ф37.5
Ф48	11hex Polymer noiseless sleeve for shaft	BF=W+10	E=W+9	L=W+49	65	Ф37.5
ΦΕ0	Ф8/10/12/11hex	BF=W+10	E=W+9	L=W+31	65	Ф38.5
Ф50	11hex Polymer noiseless sleeve for shaft	BF=W+10	E=W+9	L=W+49	65	Ф38.5
Ф60	Ф10/12/11hex	BF=W+10	E=W+9	L=W+31	65	Ф48.0

Tube	D*T	Ф8	Ф10	11hex	11hex Polymer noiseless sleeve for shaft	Ф12
	Ф48.6х1.5		2.230.JGA.AMA	2.230.JGA.AFA	2.230.JGA.AHA	2.230.JGA.ACA
Steel, zinc plated	Ф50x1.5	2.230.SHC.ABA	2.230.SHC.AMA	2.230.SHC.AFA	2.230.SHC.AHA	2.230.SHC.ACA
	Ф60х2.0		2.230.SOC.AMA	2.230.SOC.AFA	2.230.SOC.AHA	2.230.SOC.ACA
Steel, zinc plated with PVC sleeve (2mm)	Ф50x1.5	2.230.SHD.ABA	2.230.SHD.AMA	2.230.SHD.AFA	2.230.SHD.AHA	2.230.SHD.ACA
	Ф48.6х1.5		2.230.NGC.BMA	2.230.NGC.BFA	2.230.NGC.AHA	2.230.NGC.BCA
Stainless steel	Ф50x1.5	2.230.NHC.BBA	2.230.NHC.BMA	2.230.NHC.BFA	2.230.NHC.AHA	2.230.NHC.BCA
(304)	Ф60х2.0		2.230.NOC.BMA	2.230.NOC.BFA	2.230.NOC.AHA	2.230.NOC.BCA



Φ60 rollers can be fitted with PVC sleeve (2mm)

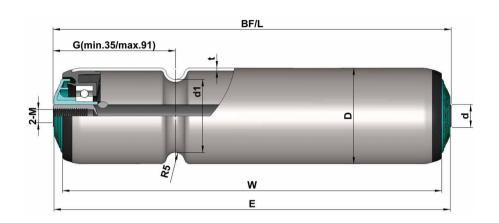
Φ50 rollers can be fitted with PU sleeve (2mm/3mm)

PVC/PU sleeve is not anti-static.

Polymer noiseless sleeve for shaft roller:

- ① Actual frame width= E+ (1~3) mm, Excessive width inside the frame will damage the shaft core and roller
- ② Applicable mounting hole range: 11.2~11.7mm (edge to edge)





2230 Series Internal Thread

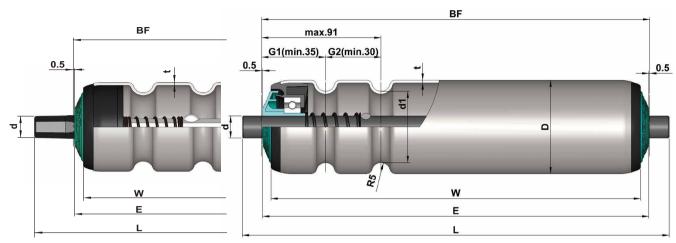
•	Tube Dia.(D)	Shaft Dia.(d)				G	d1
	Ф48	Ф14/15	BF=W+10	E=W+9	L=W+10	65	Ф37.5
	Ф50	Ф14/15	BF=W+10	E=W+9	L=W+10	65	Ф38.5
	Ф60	Ф14/15	BF=W+10	E=W+9	L=W+10	65	Ф48.0

Tube	D*T	Shaft Dia.(d)				
Tube		Ф14 (М8)	Ф15 (M10x20)			
	Ф48.6x1.5	2.230.JGA.BLC	2.230.JGA.ADC			
Steel, zinc plated	Ф50x1.5	2.230.SHC.BLC	2.230.SHC.ADC			
	Ф60х2.0	2.230.SOC.BLC	2.230.SOC.ADC			
Steel, zinc plated with PVC sleeve (2mm)	Ф50x1.5	2.230.SHD.BLC	2.230.SHD.ADC			
Stainless steel	Ф48.6x1.5	2.230.NGC.BLC	2.230.NGC.BDC			
(304)	Ф50x1.5	2.230.NHC.BLC	2.230.NHC.BDC			
(304)	Ф60х2.0	2.230.NOC.BLC	2.230.NOC.BDC			

Φ50 rollers can be fitted with PU sleeve (2mm/3mm). PVC/PU sleeve is not anti-static.



2230/2240 Series Driven Conveyor Roller



Polymer noiseless sleeve for shaft

2240 Series Spring Loaded

Tube Dia.(D)	Shaft Dia.(d)				G1	G2	d1
Ф48	Ф10/12/11hex	BF=W+10	E=W+9	L=W+31	35	30	Ф37.5
	11hex Polymer noiseless sleeve for shaft	BF=W+10	E=W+9	L=W+49	35	30	Ф37.5
Ф50	Φ8/10/12/11hex	BF=W+10	E=W+9	L=W+31	35	30	Ф38.5
	11hex Polymer noiseless sleeve for shaft	BF=W+10	E=W+9	L=W+49	35	30	Ф38.5
Ф60	Ф10/12/11hex	BF=W+10	E=W+9	L=W+31	35	30	Ф48.0

		Shaft Dia.(d)					
Tube	D*T	Ф8	Ф10	11hex	11hex Polymer noiseless	Ф12	
	₼ 40 04 E		0.040 104 444	0.040 104 454	sleeve for shaft	0.040.104.404	
	Ф48.6х1.5		2.240.JGA.AMA			2.240.JGA.ACA	
Steel, zinc plated	Ф50x1.5	2.240.SHC.ABA	2.240.SHC.AMA	2.240.SHC.AFA	2.240.SHC.AHA	2.240.SHC.ACA	
	Ф60х2.0		2.240.SOC.AMA	2.240.SOC.AFA	2.240.SOC.AHA	2.240.SOC.ACA	
Steel, zinc plated with PVC sleeve (2mm)	Ф50х1.5	2.240.SHD.ABA	2.240.SHD.AMA	2.240.SHD.AFA	2.240.SHD.AHA	2.240.SHD.ACA	
	Ф48.6х1.5		2.240.NGC.BMA	2.240.NGC.BFA	2.240.NGC.AHA	2.240.NGC.BCA	
Stainless steel	Ф50х1.5	2.240.NHC.BBA	2.240.NHC.BMA	2.240.NHC.BFA	2.240.NHC.AHA	2.240.NHC.BCA	
(304)	Ф60х2.0		2.240.NOC.BMA	2.240.NOC.BFA	2.240.NOC.AHA	2.240.NOC.BCA	



Φ60 rollers can be fitted with PVC sleeve (2mm)

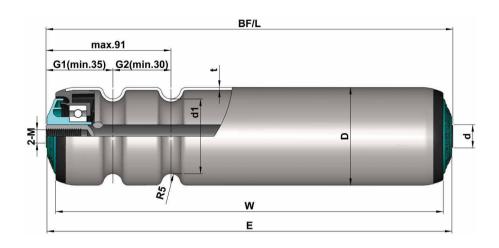
Φ50 rollers can be fitted with PU sleeve (2mm/3mm).

PVC/PU sleeve is not anti-static.

Polymer noiseless sleeve for shaft roller:

- ① Actual frame width= E+ (1~3) mm, Excessive width inside the frame will damage the shaft core and roller
- ② Applicable mounting hole range: 11.2~11.7mm (edge to edge)





2240 Series Internal Thread

Tube Dia.(D)	Shaft Dia.(d)				G1	G2	d1
Ф48	Ф14/15	BF=W+10	E=W+9	L=W+10	35	30	Ф37.5
Ф50	Ф14/15	BF=W+10	E=W+9	L=W+10	35	30	Ф38.5
Ф60	Ф14/15	BF=W+10	E=W+9	L=W+10	35	30	Ф48.0

Tube	D*T	Shaft Dia.(d)			
Tube		Ф14 (М8)	Ф15 (M10x20)		
Steel, zinc plated	Ф48.6x1.5	2.240.JGA.BLC	2.240.JGA.ADC		
	Ф50x1.5	2.240.SHC.BLC	2.240.SHC.ADC		
	Ф60х2.0	2.240.SOC.BLC	2.240.SOC.ADC		
Steel, zinc plated with PVC sleeve (2mm)	Ф50x1.5	2.240.SHD.BLC	2.240.SHD.ADC		
	Ф48.6x1.5	2.240.NGC.BLC	2.240.NGC.BDC		
Stainless steel	Ф50x1.5	2.240.NHC.BLC	2.240.NHC.BDC		
(304)	Ф60x2.0	2.240.NOC.BLC	2.240.NOC.BDC		



2260 Series Driven Conveyor Roller



2260 Series

O-Belt Pulley Conveyor Roller

Product Features

- The O-belt pulley is located the end of the roller which separates the
 drive area and the conveying area avoiding interference between the
 O-belt and the conveyed goods.
- The bearing end cap consists of a precision ball bearing, a polymer housing and end cap seal. Combined they provide an attractive, smooth and quite running roller.
- The design of the end cap protects the bearings by providing excellent resistance to dust and splashed water.
- Because there is no grooving of the tube, the tube will not have any distortion and the roller will run more smoothly.
- Standard configuration with anti–static design surface impedance \leq 10 $^6\Omega$.
- Temperature range: -5°C ~ +40°C.
- Humidity range: 30%~ 90% RH (non-condensation).
 Please contact us if humidity out of this scope.

Specifications

•	I .
Bearing unit	
Bearing housing	Polyamide, black
End cap	Polyproylene, Damon green
Precision ball bearing	6002
Drive Element	
O-belt pulley	Polyamide, black



About Conveying Duty

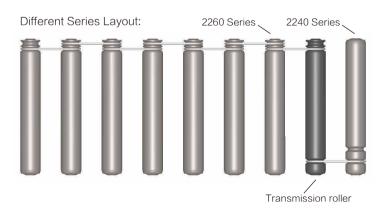
- 1.Duty is the maximum conveying capacity of driven roller (it's not roller's maximum load capacity) For more information about the load capacity, refer to the load capacity of 1200 series dia 50 roller on Page 27.
- 2.In driven conveying, duty plays a decisive role.
- 3. The duty capacity of the rollers depend on the drive method and drive capacity of the O-belt. Single items should not exceed 30kg.

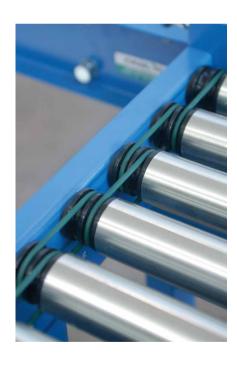
Double Groove Pulley Drive

- 1. Simple arrangement. Easy installation and maintenance.
- 2. The driving torque deteriorates rapidly from roller to roller. Typically single MDR can only drive 7 to 8 rollers. The weight of single items to be conveyed should not exceed 30kg.
- 3. The preloading value is required for the length of O-belt loop. It may vary according to the different O-belt suppliers. Please check the specifications with the O-belt supplier. Typically, reduce the preloading value by 5% 8% from the theoretical length of loop.



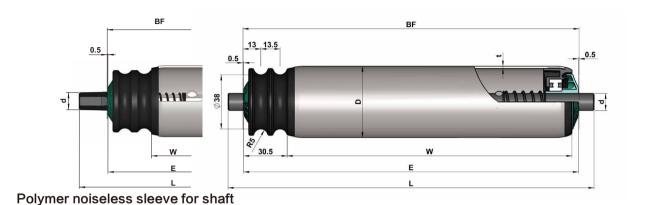








2260 Series Driven Conveyor Roller



2260 Series Spring Loaded

Tube Dia.(D)	Shaft Dia.(d)			
Ф50	Ф10/12/11hex	BF=W+36	E=W+35	L=W+57
	11hex Polymer noiseless sleeve for shaft	BF=W+36	E=W+35	L=W+75

	Shaft Dia.(d)				
Tube	D*T	Ф10	11hex	11hex Polymer noiseless	Ф12
				sleeve for shaft	
Steel, zinc plated	Ф50х1.5	2.260.SHC.AMA	2.260.SHC.AFA	2.260.SHC.AHA	2.260.SHC.ACA
Steel, zinc plated with PVC sleeve (2mm)	Ф50х1.5	2.260.SHD.AMA	2.260.SHD.AFA	2.260.SHD.AHA	2.260.SHD.ACA
Stainless steel(304)	Ф50х1.5	2.260.NHC.BMA	2.260.NHC.BFA	2.260.NHC.AHA	2.260.NHC.BCA
Aluminium	Ф50х1.5	2.260.AHC.AMA	2.260.AHC.AFA	2.260.AHC.AHA	2.260.AHC.ACA

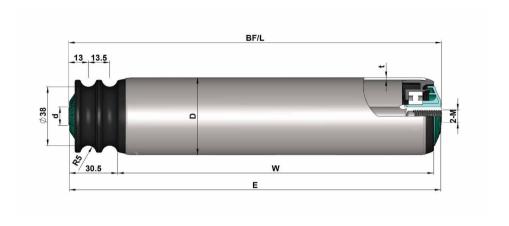


♣ Φ50 rollers can be fitted with PU sleeve (2mm/3mm).PVC/PU sleeve is not anti-static.

Polymer noiseless sleeve for shaft roller:

- ① Actual frame width= E+ (1~3) mm, Excessive width inside the frame will damage the shaft core and roller
- ② Applicable mounting hole range: 11.2~11.7mm (edge to edge)





2260 Series Internal Thread

Tube Dia.(D)	Shaft Dia.(d)			
Ф50	Ф14/15	BF=W+36	E=W+35	L=W+36

Tube	D*T		Shaft Dia.(d)
Tube	D I	Ф14 (М8)	Ф15 (M10x20)
Steel, zinc plated	Ф50x1.5	2.260.SHC.BLC	2.260.SHC.ADC
Steel, zinc plated with PVC sleeve (2mm)	Ф50x1.5	2.260.SHD.BLC	2.260.SHD.ADC
Stainless steel(304)	Ф50x1.5	2.260.NHC.BLC	2.260.NHC.BDC
Aluminium	Ф50x1.5	2.260.AHC.BLC	2.260.AHC.ADC

🍻 Φ50 rollers can be fitted with PU sleeve (2mm/3mm).PVC/PU sleeve is not anti-static.



2250 Series Driven Conveyor Roller



2250 Series

Poly-Vee Conveyor Roller

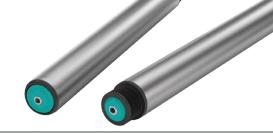
Product Features

- The poly-vee pulley is located at the end of the roller which separates the drive area and the conveying area making the conveying smooth, high speed and low noise.
- The bearing end cap consists of a precision ball bearing, a polymer housing and end cap seal. Combined they provide an attractive, smooth and quite running roller.
- The design of the end cap protects the bearings by providing excellent resistance to dust and splashed water.
- PJ series poly-vee. Total of 9 grooves at 2.34mm pitch.
- Various PJ belt lengths available to suit different pitch of rollers.
- Suitable for the high speed applications. Maximum speed varies with roller length and diameter. Maximum speed up to 2~3m/s.
- Standard configuration with anti–static design surface impedance \leq 10 $^{\circ}\Omega$ $_{\circ}$
- Temperature range: -5°C ~ +40°C.
- Humidity range: 30%~ 90% RH (non-condensation).
 Please contact us if humidity out of this scope.

Specifications

Bearing Unit	
Bearing housing	Polyamide, black
End cap	Polyproylene, Damon green
Precision ball bearing	6002
Drive Element	
Poly-vee pulley	Polyamide,black

Poly-vee belts are available.



About Conveying Duty

- 1.Duty is the maximum conveying capacity of driven roller (it's not roller's maximum load capacity) For more information about the load capacity, refer to the load capacity of 1200 series dia 50 roller on Page 27.
- 2.In driven conveying, duty plays a decisive role.
- 3. The duty capacity of the roller is based on the drive method and the type of Poly-vee belt. The duty rating is high when fewer rollers are driven or selecting the 3 or 4 groove Poly-vee belt.
- 4. The duty capacity for each unit can be as high as 100kg when the 3 groove poly-vee belt is used.

Roller Center Pitch

Poly-vee belt selection according to the roller pitch, please refer to the following chart:

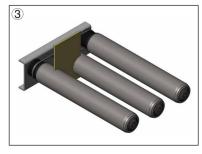
Roller pitch(mm)	Types of poly-vee belt		
60~63	2PJ256	3PJ256	
73~75	2PJ286	3PJ286	
87~91	2PJ314	3PJ314	
97~101	2PJ336	3PJ336	
119~121	2PJ376	3PJ376	
123~128	2PJ388	3PJ388	
129~134	2PJ416	3PJ416	
142~147	2PJ435	3PJ435	

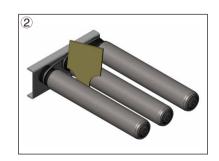
If you have other spacing requirements, please contact us.

Roller Installation

To avoid incorrect installation, an appropriate method and a suitable tool is required to install poly-vee rollers.



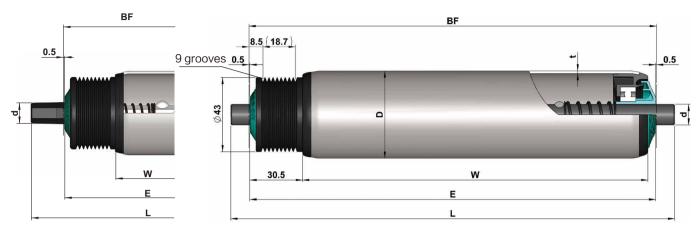








2250 Series Driven Conveyor Roller



Polymer noiseless sleeve for shaft

2250 Series Spring Loaded

Tube Dia.(D)	Shaft Dia.(d)			
ф40	Ф10/12/11hex	BF=W+36	E=W+35	L=W+57
Ф48	11hex (Polymer noiseless sleeve for shaft)	BF=W+36	E=W+35	L=W+75
Φ.Γ.0	Ф10/12/11hex	BF=W+36	E=W+35	L=W+57
Ф50	11hex (Polymer noiseless sleeve for shaft)	BF=W+36	E=W+35	L=W+75

	Shaft Dia.(d)				
Tube	D*T	Ф10	11hex	11hex Polymer noiseless sleeve for shaft	Ф12
Steel, zinc plated	Ф48.6х1.5	2.250.JGA.AMA	2.250.JGA.AFA	2.250.JGA.AHA	2.250.JGA.ACA
Steel, Zirio piated	Ф50x1.5	2.250.SHC.AMA	2.250.SHC.AFA	2.250.SHC.AHA	2.250.SHC.ACA
Steel, zinc plated with PVC sleeve (2mm)	Ф50x1.5	2.250.SHD.AMA	2.250.SHD.AFA	2.250.SHD.AHA	2.250.SHD.ACA
Stainless steel	Ф48.6х1.5	2.250.NGC.BMA	2.250.NGC.BFA	2.250.NGC.AHA	2.250.NGC.BCA
(304)	Ф50x1.5	2.250.NHC.BMA	2.250.NHC.BFA	2.250.NHC.AHA	2.250.NHC.BCA
Aluminium	Ф50x1.5		2.250.AHC.AFA	2.250.AHC.AHA	2.250.AHC.ACA



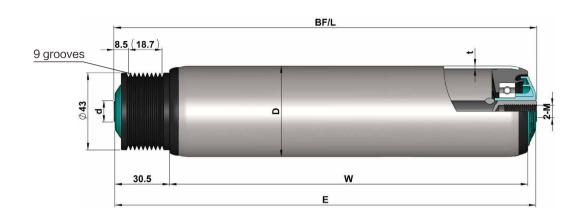
🍻 Φ50 rollers can be fitted with PU sleeve (2mm/3mm).PVC/PU sleeve is not anti-static.

Polymer noiseless sleeve for shaft roller:

- ① Actual frame width= E+ (1~3) mm, Excessive width inside the frame will damage the shaft core and roller
- ② Applicable mounting hole range: 11.2~11.7mm (edge to edge)

Please choose the steel Poly-Vee roller when you must use 4PJ belt.





2250 Series Internal Thread

Tube Dia.(D)	Shaft Dia.(d)			
Ф48	Ф14/15	BF=W+36	E=W+35	L=W+36
Ф50	Ф14/15	BF=W+36	E=W+35	L=W+36

Tube	D*T		Shaft Dia.(d)	
Tube	וט	Ф14 (М8)	Ф15 (M10x20)	
Steel, zinc plated	Ф48.6х1.5	2.250.JGA.BLC	2.250.JGA.ADC	
Steel, Ziric plated	Ф50x1.5	2.250.SHC.BLC	2.250.SHC.ADC	
Steel, zinc plated with PVC sleeve (2mm)	Ф50x1.5	2.250.SHD.BLC	2.250.SHD.ADC	
Stainless steel	Ф48.6x1.5	2.250.NGC.BLC	2.250.NGC.BDC	
(304)	Ф50x1.5	2.250.NHC.BLC	2.250.NHC.BDC	
Aluminium	Ф50x1.5	2.250.AHC.BLC	2.250.AHC.ADC	

ቆ Φ50 rollers can be fitted with PU sleeve (2mm/3mm).PVC/PU sleeve is not anti-static.

⚠ Please choose the steel Poly-Vee roller when you must use 4PJ belt.



2890M Series Driven Conveyor Roller



2890M Series

Medium-duty Poly-vee Conveyor Roller

Product Features

- The steel poly-vee pulley is firmly welded on the steel tube. The maximum driving capacity for each zone can reach 300kg.
- The precision ball bearing is pressed tightly into the steel bearing housing for high load capacity.
- PJ type; 11 grooves with 2.34mm pitch.
- Different poly-vee belt series are for different roller center pitch (see the attached table).
- The steel poly-vee pulley roller is more adaptable than polymer ones.
- Temperature range: -5°C~ +40°C
- Humidity range: as low as 2% RH.
 Please contact us if humidity out of this scope.

Specifications

Bearing Unit	
Bearing housing	Steel
Ground sleeve	Polyamide, black
Precision ball bearing	6001/6002

Drive Element	
Poly-vee pulley	Steel, decorative chromium plated

Poly-vee belts are available.



About Conveying Duty

- 1.Duty is the maximum conveying capacity of driven roller (it's not roller's maximum load capacity) For more information about the load capacity, refer to the load capacity of 1200 series dia 50 roller on Page 27.
- 2.In driven conveying, duty plays a decisive role.
- 3. The duty capacity for each unit can be as high as 300kg when the 5 groove poly-vee belt is used.

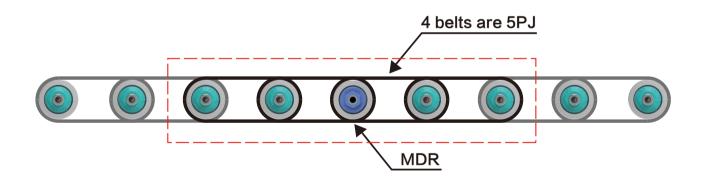
Roller Center Pitch

Please refer to the following table for the regular pitch and the corresponding poly-vee belt series:

Center distance(mm)	Type of poly-vee belts		
60~63	4PJ256	5PJ256	
73~75	4PJ286	5PJ286	
87~91	4PJ314	5PJ314	
97~101	4PJ336	5PJ336	
119~121	4PJ376	5PJ376	
123~128	4PJ388	5PJ388	
129~134	4PJ416	5PJ416	
142~147	4PJ435	5PJ435	

If you have other spacing requirements, please contact us.

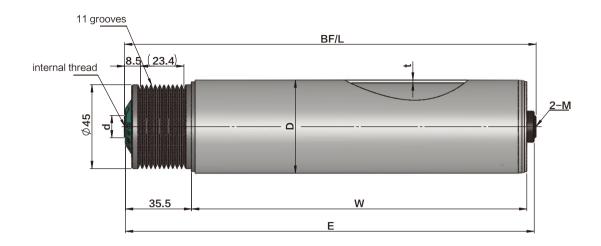
Solution Shematic Diagram



⚠ 5PJ poly−vee belt must be applied to the four poly−vee belts near to the MDR or drive poly−vee pulley (2 belts separately on the left and right sides), and 4PJ can be applied to the rest belts.

The overall performance will be better when 5PJ is applied to all belts (the Hutchinson brand is recommended). Each single MDR (middle drive) can drive no more than 14 pieces of poly-vee roller.





2890M Series Internal Thread

Tube Dia.(D)	Shaft Dia.(d)			
Ф50	Ф12	BF=W+41	E=W+39.5	L=W+41
400	Ф15	BF=W+42	E=W+40.5	L=W+42

Tube	D*T	Shaft Dia.(d)			
Tube		Ф14 (М8)	Ф15 (M10x20)		
Steel, zinc plated	ΦΕ0v1 Ε	2.890M.SHC.ACC	2.890M.SHC.ADC		
Stainless steel (304)	Ф50х1.5	2.890M.NHC.ACC	2.890M.NHC.ADC		

stainless steel 304 tube with black bearing housing.

Zinc plate steel tube with zinc plated steel bearing housing.





2280 Series

Timing Belt Pulley Conveyor Roller

Product Features

- The polymer timing pulley is installed at the end of the roller, which makes the drive and conveying separate in the zone. The conveying is more stable and has the characteristics of high speed and low noise.
- The bearing end cap consists of a precision ball bearing, a polymer housing and end cap seal. Combined they provide an attractive, smooth and quite running roller.
- The design of the end cap protects the bearings by providing excellent resistance to dust and splashed water.
- larger transmission capability, compact structure, tensioning–free mechanism and simple design.
- It is more efficient without slip in conveying.
- The T5 tooth shape design is suitable for the roller conveyor with higher versatile.
- Its positioning is precise with the use of MDR to meet the application requirements of the load section.
- It is suitable for clean room and other harsh environment with the use of PU synchronous belt.
- Compared with traditional belt drive, it is waterproof (no skidding) and has the ability to work in a certain bad environment.
- It needs no lubrication with easy maintenance.
- Different timing belt models match the different center distance of the roller. (see the appendix)
- Suitable for the high speed applications. Maximum speed varies with roller length and diameter. Maximum speed up to 2~3m/s.
- Standard configuration with anti-static design surface impedance ≤ 10⁶Ω.
- Temperature range: -5°C~ +40°C.
- Humidity range: 30%~ 90% RH (non-condensation).
 Please contact us if humidity out of this scope.

Specifications

Bearing Unit	
Bearing housing	Polyamide, black
End cap	Polypropylene, Damon green
Precision ball bearing	6002

Drive Element	
Timing pulley	Polyamide, black



2280 Series Driven Conveyor Roller

About Conveying Duty

- 1.Duty is the maximum conveying capacity of driven roller (it's not roller's maximum load capacity) For more information about the load capacity, refer to the load capacity of 1200 series dia 50 roller on Page 27.
- 2.In driven conveying, duty plays a decisive role.
- 3. The duty capacity of the roller depends on the conveying arrangement and the mode of the timing belt. In general, the duty capacity of the single zone can achieve100kg.

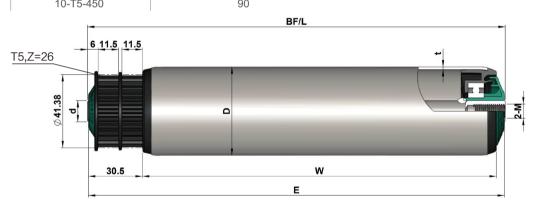
Roller Center Pitch

The center distance of the timing belt arrangement is strictly limited (recommended tolerance: +0.5/0mm).

The common pitch and the timing belt type with it are shown in the following table:

synchronous belt wide: 10mm

Center distance(mm)	Type of timing belt	Teeth number of timing belt
60	10-T5-250	50
75	10-T5-280	56
85	10-T5-300	60
100	10-T5-330	66
105 10-T5-340		68
135 10-T5-400		80
145 10-T5-420		84
160	10-T5-450	90



2280 Series Internal Thread

Tube Dia.(D)	Shaft Dia.(d)			
Ф50	Ф14/15	BF=W+36	E=W+35	L=W+36

Tube	D*T	Shaft Dia. (d)			
Tube		Ф14 (М8)	Ф15 (M10x20)		
Steel, zinc plated	Ф50x1.5	2.280.SHC.BLC	2.280.SHC.ADC		
Steel, zinc plated with PVC sleeve (2mm)	Ф50x1.5	2.280.SHD.BLC	2.280.SHD.ADC		
Stainless steel(304)	Ф50x1.5	2.280.NHC.BLC	2.280.NHC.BDC		
Aluminium	Ф50х1.5	2.280.AHC.BLC	2.280.AHC.ADC		



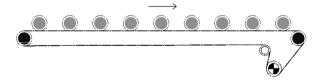
P Φ50 rollers can be fitted with PU sleeve (2mm/3mm), PVC/PU sleeve is not anti-static.

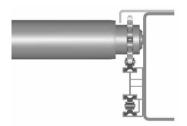


Single Chain Sprocket Drive

- 1. The compact construction is suitable for medium/low speed, continuous operation.
- 2. Typically the conveyor is equipped with a chain tensioner.
- 3.When considering the maximum duty of the single roller, you should also consider the ultimate tension of the chain under conveyor full drive conditions.
- 4. Compared with the double chain drive, the choice of roller pitch is more flexible and not determined by the chain pitch.

Single chain layout:





Double Chain Sprocket Drive

- 1.Suitable for heavy duty loads and frequent start/stop operation.
- 2.To obtain the best roller drive transmission, the drive should be located in the centre of the conveyor.

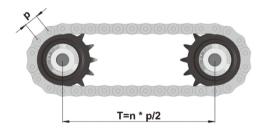
Double chain arrangement:



- 3. Compared with single sprocket drive, the conveying speed is higher. Maximum speed: 30m/min.
- 4. The roller pitch is limited, please see below.

T=n*p/2

Note: n—Integer, 1、2、3、…… p—Chain pitch



Avoid half pitch chain. Please use the chart below for the chain pitch.

Unit: mm

Type	Pitch	Center distance(T)					Tolerence
08B11T	12.7	69.8	82.5	95.2	107.9	120.6	0/-0.4
08B14T	12.7	88.9	101.6	114.3	127	139.7	0/-0.4
10A13T	15.875	119	134.9	150.8	166.6	182.5	0/-0.7
10B15T	15.875	134.9	150.8	166.6	182.5	198.4	0/-0.7



2214/2224 Series Driven Conveyor Roller



2214/2224 Series

Polymer Single/Double Sprocket Roller

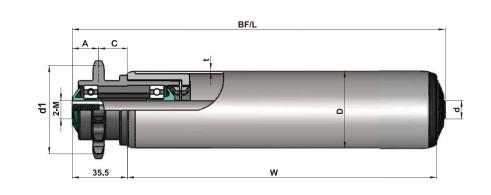
Product Features

- Using the polyamide sprocket roller as the drive element greatly reduces the running noise.
- The bearing end cap consists of a precision ball bearing, a polymer housing and end cap seal. Combined they provide an attractive, smooth and quite running roller.
- The design of the end cap protects the bearings by providing excellent resistance to dust and splashed water.
- The weight of the goods to be conveyed should not exceed 150kg. Standard configuration with anti–static design surface impedance $\leq 10^{\,6}\,\Omega_{\,\circ}$
- Temperature range: -5°C ~ +40°C.
- Humidity range: 30%~ 90% RH (non-condensation).
 Please contact us if humidity out of this scope.

Specifications

Bearing Unit	
Bearing housing	Polyamide, black
End cap	Polyproylene, Damon green
Precision ball bearing	6002
Drive Element	
Sprocket	Polyamide,black





2214 Series Internal Thread

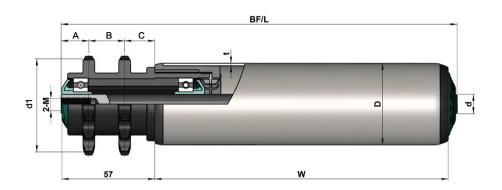
Tube Dia.(D)	Shaft Dia.(d)		Spocket style	Α	С	d1
Ф50	Ф12/15	BF/L=W+41	08B14T	17	18.5	57.07
Ф60	Ф12/15	BF/L=W+41	08B14T	17	18.5	57.07

Tube	D*T	Shaft Dia.(d)			
Tube		Ф12 (M8x15)	Ф15 (M10x20)		
Steel, zinc plated	Ф50x1.5	2.214.SHC.ACC	2.214.SHC.ADC		
Steel, Zinc plated	Ф60х2.0	2.214.SOC.ACC	2.214.SOC.ADC		
Stainless steel	Ф50x1.5	2.214.NHC.BCC	2.214.NHC.BDC		
(304)	Ф60х2.0	2.214.NOC.BCC	2.214.NOC.BDC		
Aluminium	Ф50x1.5	2.214.AHC.ACC	2.214.AHC.ADC		
Alaminam	Ф60х2.0	2.214.AOC.ACC	2.214.AOC.ADC		
PVC	Ф50x2.5	2.214.P8C.BCC	2.214.P8C.BDC		

♣ Φ50、60 rollers can be fitted with PVC sleeve (2mm) Φ50 rollers can be fitted with PU sleeve (2mm/3mm). PVC/PU sleeve is not anti-static.



2214/2224 Series Driven Conveyor Roller



2224 Series Internal Thread

Tube Dia.(D)	Shaft Dia.(d)		Spocket style	Α	В	С	d1
Ф50	Ф12/15	BF/L=W+63	08B14T	17	22	18.5	57.07
Ф60	Ф12/15	BF/L=W+63	08B14T	17	22	18.5	57.07

Tube	D*T	Shaft Dia.(d)			
Tube		Ф12 (M8x15)	Ф15 (M10x20)		
Steel, zinc plated	Ф50x1.5	2.224.SHC.ACC	2.224.SHC.ADC		
Steel, zille plated	Ф60x2.0	2.224.SOC.ACC	2.224.SOC.ADC		
Stainless steel	Ф50x1.5	2.224.NHC.BCC	2.224.NHC.BDC		
(304)	Ф60х2.0	2.224.NOC.BCC	2.224.NOC.BDC		
Aluminium	Ф50x1.5	2.224.AHC.ACC	2.224.AHC.ADC		
Aluminum	Ф60х2.0	2.224.AOC.ACC	2.224.AOC.ADC		
PVC	Ф50x2.5	2.224.P8C.BCC	2.224.P8C.BDC		





2411/2421 Series

Steel Single/Double Sprocket Roller

Product Features

- Welding the steel sprocket to the steel tube gives it the capacity to transmit high torque and meet the requirements for heavy duty transportation.
- The bearing end cap consists of a precision ball bearing, a polymer housing and end cap seal. Combined they provide an attractive, smooth and quite running roller.
- The design of the end cap protects the bearings by providing excellent resistance to dust and splashed water.
- Temperature range: -5°C ~ +40°C.
 Please contact us if humidity out of this scope.

Specifications

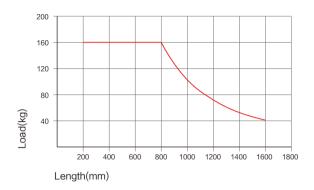
Bearing Unit	
Bearing housing	Polyamide, black
End cap	Polyproylene, Damon green
Precision ball bearing	6002/6205

Drive Element	
Sprocket	Steel

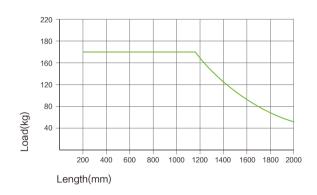


2411/2421 Series Driven Conveyor Roller

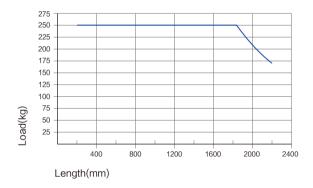
2411/2421 Series Load Capacity







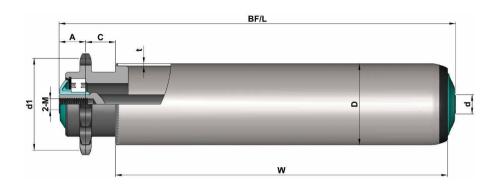
■ Steel tube Φ60x2.0, shaft Φ12/15, internal thread



■ Steel tube Φ80x3.0, shaft Φ20, internal thread Steel tube Φ76x3.0, shaft Φ20, internal thread

⚠ Above data shows the static load capacity of the roller for a uniformly distributed load.
You should also consider the chain tension, motor power drive factors, calculation based on the smallest value.





2411 Series Internal Thread

Tube Dia.(D)	Shaft Dia.(d)		Spocket style	Α	С	d1
Ф50	Ф12/15	BF/L=W+41	08B14T	17	18.5	Ф57.07
Ф60	Ф12/15	BF/L=W+41	08B14T	17	18.5	Ф57.07
Ф76	Ф20	BF/L=W+37	10B15T	18	13	Ф76.35
Ф80	Ф20	BF/L=W+37	10B15T	18	13	Ф76.35

Tube	D*T	Shaft Dia.(d)				
Tube	וט	Ф12 (M8x15)	Ф15 (M10x20)	Ф20 (M12x25)		
	Ф50x1.5	2.411.SHC.ACC	2.411.SHC.ADC			
	Ф50x2.0	2.411.SWC.ACC	2.411.SWC.ADC			
Steel, zinc plated	Ф60x2.0	2.411.SOC.ACC	2.411.SOC.ADC			
	Ф76х3.0			2.411.JSA.AEC		
	Ф80х3.0			2.411.J6A.AEC		
Steel, zinc plated with steel flange	Ф76х3.0			2.411.JSG.AEC		
oteel, zine plated with steel hange	Ф80х3.0			2.411.J6G.AEC		
	Ф50x1.5	2.411.NHC.BCC	2.411.NHC.BDC			
Stainless steel	Ф60x2.0	2.411.NOC.BCC	2.411.NOC.BDC			
(304)	Ф76х3.0			2.411.NSC.BEC		
Stainless steel,	Ф60х2.0	2.411.NOG.BCC	2.411.NOG.BDC			
with stainless steel flange(304)	Ф76х3.0			2.411.NSG.BEC		

♣ Φ50、60 rollers can be fitted with PVC sleeve (2mm)

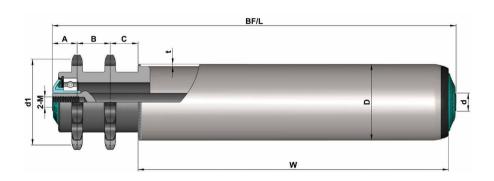
 Φ 50 rollers can be fitted with PU sleeve (2mm/3mm).

PVC/PU sleeve is not anti-static.

If steel pallets are transported, the risk of wear on roller surface is higher, please contact us in advance.



2411/2421 Series Driven Conveyor Roller



2421 Series Internal Thread

Tube Dia.(D)	Shaft Dia.(d)		Spocket style	Α	В	С	d1
Ф50	Ф12/15	BF/L=W+63	08B14T	17	22	18.5	Ф57.07
Ф60	Ф12/15	BF/L=W+63	08B14T	17	22	18.5	Ф57.07
Ф76	Ф20	BF/L=W+63	10B15T	18	26	13	Ф76.35
Ф80	Ф20	BF/L=W+63	10B15T	18	26	13	Ф76.35

Tube	D*T	Shaft Dia.(d)				
rube	ויט	Ф12 (M8x15)	Ф15 (M10x20)	Ф20 (M12x25)		
Steel, zinc plated	Ф50x1.5	2.421.SHC.ACC	2.421.SHC.ADC			
	Ф50x2.0	2.421.SWC.ACC	2.421.SWC.ADC			
	Ф60х2.0	2.421.SOC.ACC	2.421.SOC.ADC			
	Ф76х3.0			2.421.JSA.AEC		
	Ф80х3.0			2.421.J6A.AEC		
Charles also also also also also also also als	Ф76х3.0			2.421.JSG.AEC		
Steel, zinc plated with steel flange	Ф80х3.0			2.421.J6G.AEC		
Stainless steel	Ф50x1.5	2.421.NHC.BCC	2.421.NHC.BDC			
3 (3) (1) (3)	Ф60х2.0	2.421.NOC.BCC	2.421.NOC.BDC			
(304)	Ф76х3.0			2.421.NSC.BEC		
Stainless steel,	Ф60х2.0	2.421.NOG.BCC	2.421.NOG.BDC			
with stainless steel flange(304)	Ф76х3.0			2.421.NSG.BEC		



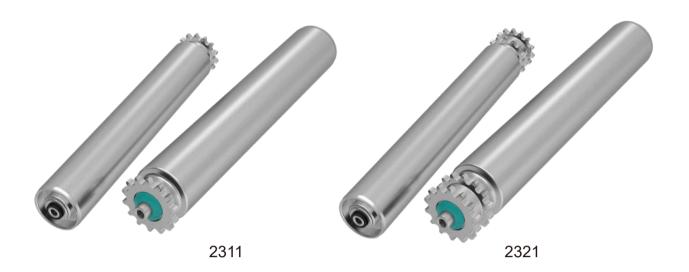
Φ50、60 rollers can be fitted with PVC sleeve (2mm)

Φ50 rollers can be fitted with PU sleeve (2mm/3mm).

PVC/PU sleeve is not anti-static.

If steel pallets are transported, the risk of wear on roller surface is higher, please contact us in advance.





2311/2321 Series

Steel Single/Double Sprocket Roller

Product Features

- Welding the steel sprocket to the steel tube gives it the capacity to transmit high torque and meet the requirements for heavy duty transportation.
- The precision ball bearing is pressed tightly into the steel bearing housing for maximum durability.
- The environmental working conditions are broad. They can be used in both high and low temperature applications.
- Anti-static design.
- The covering on the outside of the sprocket protects the bearings by providing excellent resistance to dust and splashed water.
- Temperature range: -5℃ ~ +40℃,Remove the end cap (green) and retaining ring (black), the temperature can reach -30℃ ~ +80℃.

Paraments

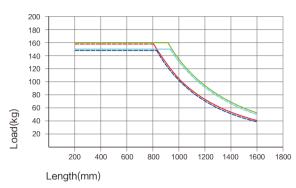
Bearing Unit	
Bearing house	Steel, zinc plated
Precision ball bearing	6001/6202/6204
Ground sleeve	Polyamide ,black

Driving element	
Sprocket	Steel

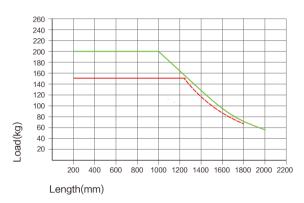


2311/2321 Series Driven Conveyor Roller

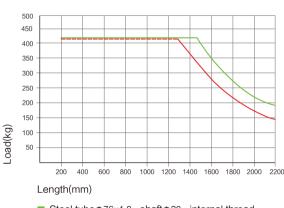
2311/2321 Series Load Capacity



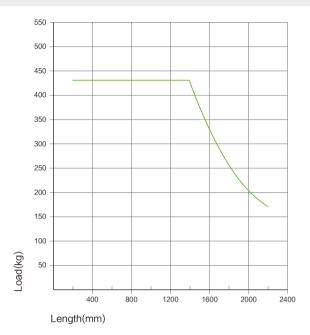
- Steel tube Φ50x2.0, shaft Φ15, internal thread
- Steel tube Φ50x1.5, shaft Φ15, internal thread
- Steel tube Φ50x2.0, shaft Φ12, internal thread
- Steel tube Ф50x1.5, shaft Ф12, internal thread



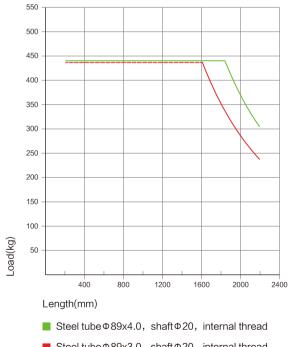
- Steel tube Φ60x2.0, shaft Φ15, internal thread
- Steel tube Φ60x2.0, shaft Φ12, internal thread



- Steel tube Φ76x4.0, shaft Φ20, internal thread
- Steel tube Φ76x3.0, shaft Φ20, internal thread



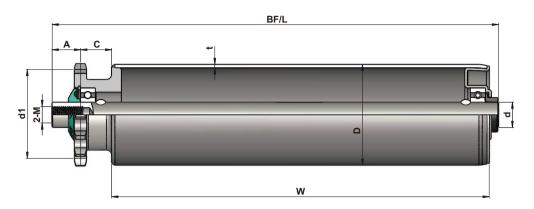
■ Steel tube Φ80x3.0, shaft Φ20, internal thread



■ Steel tube Φ89x3.0, shaft Φ20, internal thread

⚠ Above data shows the static load capacity of the roller for a uniformly distributed load. You should also consider the chain tension, motor power drive factors, calculation based on the smallest value.





2311 Series Internal Thread

Tube Dia.(D)	Shaft Dia.(d)		Spocket style	Α	С	d1
Ф50	Ф12	BF/L=W+40	08B11T	17	18.5	Ф45.08
Ф50	Ф15	BF/L=W+41	08B14T	17	18.5	Ф57.07
Ф60	Ф12/15	BF/L=W+41	08B14T	17	18.5	Ф57.07
Ф76	Ф15	BF/L=W+41	08B14T	17	18.5	Ф57.07
Ф76	Ф20	BF/L=W+44	10A13T	20	18.5	Ф66.33
Ф80	Ф20	BF/L=W+44	10B15T	20	18.5	Ф76.35
Ф89	Ф20	BF/L=W+44	10B15T	20	18.5	Ф76.35

Tube	- 4-	Shaft Dia.(d)				
Tube	D*T	Ф12 (M8x15)	Ф15 (M10x20)	Ф20 (M12x25)		
	Ф50x1.5	2.311.SHC.ACC	2.311.SHC.ADC	<u>, , , , , , , , , , , , , , , , , , , </u>		
	Ф50x2.0	2.311.SWC.ACC	2.311.SWC.ADC			
Charl mine plated	Ф60х2.0	2.311.SOC.ACC	2.311.SOC.ADC			
	Ф60х3.0		2.311.JLA.ADC			
Steel, zinc plated	Ф76х3.0		2.311.JSA.ADC	2.311.JSA.AEC		
	Ф76х4.0			2.311.JRB.AEC		
	Ф80х3.0			2.311.J6A.AEC		
	Ф89х3.0			2.311.JYA.AEC		
	Ф89х4.0			2.311.JUB.AEC		
	Ф60х3.0		2.311.JLG.ADC			
	Ф76х3.0			2.311.JSG.AEC		
	Ф76х4.0			2.311.JRG.AEC		
Steel, zinc plated with steel flange	Ф80х3.0			2.311.J6G.AEC		
	Ф89х3.0			2.311.JYG.AEC		
	Ф89х4.0			2.311.JUG.AEC		
High-strength steel, Zinc-plated	Ф80x2.0			0		
ligh-strength steel, Zinc-plated, with steel flange	Ф80x2.0			0		
	Ф50x1.5	2.311.NHC.BCC	2.311.NHC.BDC			
Stainless steel	Ф60х2.0	2.311.NOC.BCC	2.311.NOC.BDC			
(304)	Ф76х3.0		2.311.NSC.BDC	2.311.NSC.BEC		
Stainless steel,	Ф60х2.0	2.311.NOG.BCC	2.311.NOG.BDC			
with stainless steel flange(304)	Ф76х3.0		2.311.NSG.BDC	2.311.NSG.BEC		



♣ Φ50、60 rollers can be fitted with PVC sleeve (2mm)

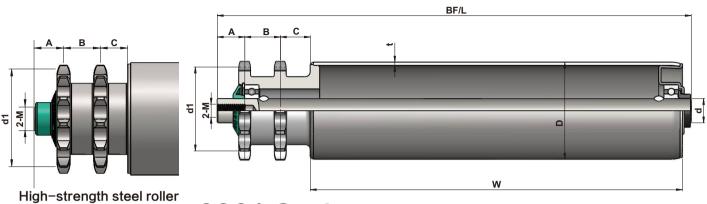
Φ50 rollers can be fitted with PU sleeve (2mm/3mm).

PVC/PU sleeve is not anti-static.

If steel pallets are transported, the risk of wear on roller surface is higher, please contact us in advance.



2311/2321 Series Driven Conveyor Roller



2321 Series Internal Thread

Tube Dia.(D)	Shaft Dia.(d)		Spocket style	Α	В	С	d1
Ф50	Ф12	BF/L=W+62	08B11T	17	22	18.5	Ф45.08
Ф50	Ф15	BF/L=W+63	08B14T	17	22	18.5	Ф57.07
Ф60	Ф12/15	BF/L=W+63	08B14T	17	22	18.5	Ф57.07
Ф76	Ф15	BF/L=W+63	08B14T	17	22	18.5	Ф57.07
Ф76	Ф17/20	BF/L=W+69	10A13T	20	25	18.5	Ф66.33
Ф80	Ф20	BF/L=W+69	10B15T	20	25	18.5	Ф76.35
Ф89	Ф20	BF/L=W+69	10B15T	20	25	18.5	Ф76.35

Tube	D*T	Shaft Dia.(d)			
Tube	וטו	Ф12 (M8x15)	Ф15 (M10x20)	Ф17 (M12x25)	Ф20 (M12x25)
	Ф50x1.5	2.321.SHC.ACC	2.321.SHC.ADC	,	,
	Ф50x2.0	2.321.SWC.ACC	2.321.SWC.ADC		
	Ф60х2.0	2.321.SOC.ACC	2.321.SOC.ADC		
	Ф60х3.0		2.321.JLA.ADC		
Steel, zinc plated	Ф76х3.0		2.321.JSA.ADC		2.321.JSA.AEC
	Ф76х4.0				2.321.JRB.AEC
	Ф80х3.0				2.321.J6A.AEC
	Ф89х3.0				2.321.JYA.AEC
	Ф89х4.0				2.321.JUB.AEC
Steel, zinc plated with steel flange	Ф60х3.0		2.321.JLG.ADC		
	Ф76х3.0				2.321.JSG.AEC
	Ф76х4.0				2.321.JRG.AEC
	Ф80х3.0				2.321.J6G.AEC
	Ф89х3.0				2.321.JYG.AEC
	Ф89х4.0				2.321.JUG.AEC
History at a state of the state of	Ф76x2.0			2.321.GXA.APC	
High-strength steel, Zinc-plated	Ф80x2.0				0
High-strength steel, Zinc-plated	Ф76x2.0			2.321.GXG.APC	
with steel flange	Ф80x2.0				0
I Bada a tasa a atla a ta a l	Ф50x1.5	2.321.NHC.BCC	2.321.NHC.BDC		
High-strength steel, Zinc-platedwith Steel Flange	Ф60x2.0	2.321.NOC.BCC	2.321.NOC.BDC		
Zinc-piateuwith Steel Flange	Ф76х3.0		2.321.NSC.BDC		2.321.NSC.BEC
Stainless steel,	Ф60х2.0	2.321.NOG.BCC	2.321.NOG.BDC		
with stainless steel flange(304)	Ф76х3.0		2.321.NSG.BDC		2.321.NSG.BEC



Φ50、60 rollers can be fitted with PVC sleeve (2mm)

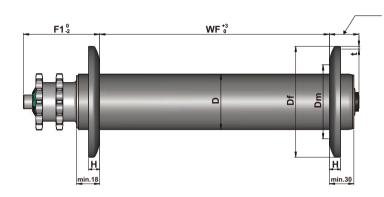
Φ50 rollers can be fitted with PU sleeve (2mm/3mm).

PVC/PU sleeve is not anti-static.

If steel pallets are transported, the risk of wear on roller surface is higher, please contact us in advance.



Steel Flange

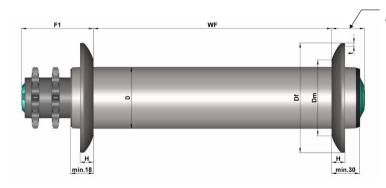


F2 subject to the cumulative error of F1 and WF

				Unit: mm
D	Df	Dm	Н	t
Ф60	Ф120	Ф80	12	3
Ф76	Ф135	Ф88.5	16.5	4
Ф80	Ф150	Ф110	18	4
Ф89	Ф150	Ф110	18	4

- 1.Steel flange and tube are welded together making it strong and durable.
- 2.Steel tube only.

Stainless steel Flange(304)



F2 subject to the cumulative error of F1 and WF

- D
 Df
 Dm
 H
 t

 Φ60
 Φ120
 Φ80
 12
 3

 Φ76
 Φ135
 Φ88.5
 16.5
 3
- Stainless Steel flange and tube are welded together making it strong and durable.
- 2. Stainless Steel tube only.



ACCUMULATION CONVEYING

Accumulation conveyors not only achieve the function of common drive conveyors but also allows goods to stop and accumulate on the conveyor line without stopping the conveyor drive and without any obvious increase to the driving resistance.

In normal conveying the accumulation device transmits the driving force. When goods stop and accumulate, the operating moment of resistance exceeds the definitive driving force. The accumulation friction sleeve slips allowing the goods to stop the roller whilst the conveyor drive is still running. The accumulation force is determined by many factors. These factors have a large influence on the roller's operation and lifespan.

- 1.Product weight;
- 2. Friction factor between product and roller surface;
- 3. Temperature and humidity of environment;
- 4. Accumulation time;
- 5.Load position.



Rollers are listed according to their series and available features.

Product features	Series	Diameter	Driving Element	Page
Polymer sprocket, polyamide bearing housing, low running noise.	3214/3224	Ф50/60		70-71
Steel sprocket, polyamide bearing housing, attractive, durable.	3211/3221	Ф50/60		72-73
Steel sprocket, steel bearing housing, accumulation force is adjustable, suitable for medium duty accumulation.	3816/3826	Ф50/60/76		74-77



3214/3224 Series Accumulating Conveyor Roller



3214 3224

3214/3224 Series

Polymer Single/Double Sprocket Accumulating Roller

Product Features

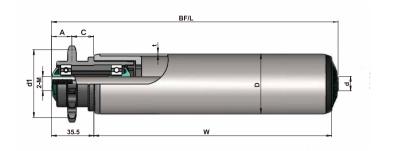
- With typical friction driven accumulation, the accumulation force is associated to duty capacity.
- The bearing end cap consists of a precision ball bearing, a polymer housing and end cap seal. Combined they provide an attractive, smooth and quite running roller.
- The design of the end cap protects the bearings by providing excellent resistance to dust and splashed water.
- Compared with steel sprockets, selecting the polyamide sprocket roller as the drive element greatly reduces the running noise.
- Standard configuration with anti–static design surface impedance $\leqslant 10^{\, \rm G} \, \Omega$.
- Temperature range: -5°C~ +40°C.
- Humidity range: 30%~ 90% RH (non-condensation).
 Please contact us if humidity out of this scope.

Specifications

Bearing Unit	
Bearing housing	Polyamide, black
End cap	Polypropylene, Damon green
Precision ball bearing	6002

Drive Element	
Sprocket	Polyamide, black

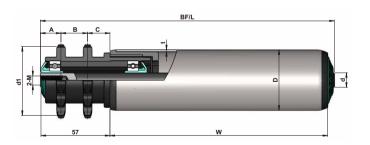




3214 Series Internal Thread

Tube Dia.(D)	Shaft Dia.(d)		Sprocket Type	Α	С	d1
Ф50	Ф12/15	BF/L=W+41	08B14T	17	18.5	57.07
Ф60	Ф12/15	BF/L=W+41	08B14T	17	18.5	57.07

Tube	D*T		Shaft Dia.(d)
Tube	וט	Ф12 (M8x15)	Ф15 (M10x20)
Steel, zinc plated	Ф50x1.5	3.214.SHC.ACC	3.214.SHC.ADC
Steel, Ziric plated	Ф60х2.0	3.214.SOC.ACC	3.214.SOC.ADC
Stianless steel	Ф50x1.5	3.214.NHC.BCC	3.214.NHC.BDC
(304)	Ф60х2.0	3.214.NOC.BCC	3.214.NOC.BDC
PVC	Ф50x2.5	3.214.P8C.BCC	3.214.P8C.BDC



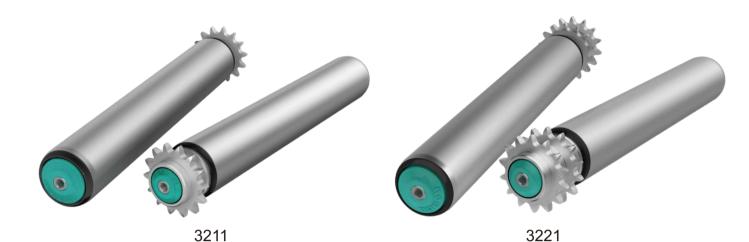
3224 Series Internal Thread

Tube Dia.(D)	Shaft Dia.(d)		Sprocket Type	Α	В	С	d1
Ф50	Ф12/15	BF/L=W+63	08B14T	17	22	18.5	57.07
Ф60	Ф12/15	BF/L=W+63	08B14T	17	22	18.5	57.07

Tube	D*T	Shaft Dia.(d)		
Tube		Ф12 (M8x15)	Ф15 (M10x20)	
Steel, zinc plated	Ф50x1.5	3.224.SHC.ACC	3.224.SHC.ADC	
Steel, Zinc plated	Ф60х2.0	3.224.SOC.ACC	3.224.SOC.ADC	
Stianless steel	Ф50x1.5	3.224.NHC.BCC	3.224.NHC.BDC	
(304)	Ф60х2.0	3.224.NOC.BCC	3.224.NOC.BDC	
PVC	Ф50x2.5	3.224.P8C.BCC	3.224.P8C.BDC	



3211/3221 Series Accumulating Conveyor Roller



3211/3221 Series

Steel Single/Double Sprocket Accumulating Roller

Product Features

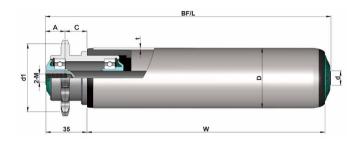
- With typical friction driven accumulation, the accumulation force is associated to duty capacity.
- The bearing end cap consists of a precision ball bearing, a polymer housing and end cap seal. Combined they provide an attractive, smooth and quite running roller.
- The design of the end cap protects the bearings by providing excellent resistance to dust and splashed water.
- Utilizes durable, steel sprockets.
- Standard configuration with anti–static design surface impedance $\,\leqslant\,10^{\,\rm 6}\,\Omega$.
- Temperature range: -5°C ~ +40 °C.
- Humidity range: 30%~ 90% RH (non-condensation).
 Please contact us if humidity out of this scope.

Specifications

Bearing Unit	
Bearing housing	Polyamide, black
End cap	Polypropylene, Damon green
Precision ball bearing	6002

Drive Element	
Sprocket	Steel

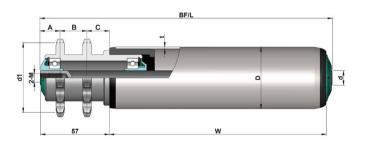




3211 Series Internal Thread

Tube Dia.(D)	Shaft Dia.(d)		Sprocket Type	Α	С	d1
Ф50	Ф12/15	BF/L=W+41	08B14T	17	18.5	57.07
Ф60	Ф12/15	BF/L=W+41	08B14T	17	18.5	57.07

Tube	D*T		Shaft Dia.(d)	
Tube	D 1	Ф12 (M8x15)	Ф15 (M10x20)	
Steel, zinc plated	Ф50x1.5	3.211.SHC.ACC	3.211.SHC.ADC	
Steer, zinc plated	Ф60х2.0	3.211.SOC.ACC	3.211.SOC.ADC	
Ctionless steel	Ф50x1.5	3.211.NHC.BCC	3.211.NHC.BDC	
Stianless steel (304)	Ф60x2.0	3.211.NOC.BCC	3.211.NOC.BDC	



3221 Series Internal Thread

Tube Dia.(D)	Shaft Dia.(d)		Sprocket Type	Α	В	С	d1
Ф50	Ф12/15	BF/L=W+63	08B14T	17	22	18.5	57.07
Ф60	Ф12/15	BF/L=W+63	08B14T	17	22	18.5	57.07

Tube	D*T		Shaft Dia.(d)	
Tube		Ф12 (M8x15)	Ф15 (M10x20)	
Steel, zinc plated	Ф50x1.5	3.221.SHC.ACC	3.221.SHC.ADC	
Steel, Ziric plated	Ф60х2.0	3.221.SOC.ACC	3.221.SOC.ADC	
Stianless steel	Ф50x1.5	3.221.NHC.BCC	3.221.NHC.BDC	
(304)	Ф60х2.0	3.221.NOC.BCC	3.221.NOC.BDC	



3816/3826 Series Accumulating Conveyor Roller



3816 3826

3816/3826 Series

Steel Single/Double Adjustable Accumulating Roller

Product Features

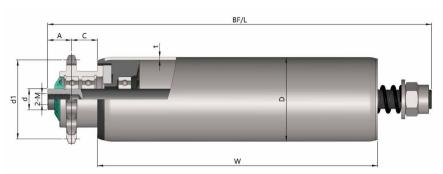
- The accumulation force can be adjusted with high flexibility by the nut at the end of the roller.
- The precision ball bearing is pressed tightly into the steel bearing housing for maximum durability.
- The friction housing is made of special material which greatly improves its abrasion resistance and lifespan.
- Temperature range: -5°C ~ +40°C.
- Humidity range: 30%~ 90% RH (non-condensation).
 Please contact us if humidity out of this scope.

Specifications

Bearing Unit	
Bearing housing	Polyamide/zinc plated
Precision ball bearing	6001/6002/6204

Drive Element	
Sprocket	Steel

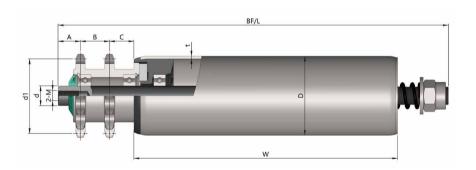




3816 Series Internal Thread

Tube Dia.(D)	Shaft Dia.(d)		Sprocket Type	Α	С	d1
Ф50	Ф12	BF/L=W+70	08B11T	17	18.5	Ф45.08
Ф60	Ф15	BF/L=W+70	08B14T	17	18.5	Ф57.07
Ф76	Ф20	BF/L=W+78	10A13T	20	18.5	Ф66.33

Tube	D*T	Shaft Dia.(d)				
Tube		Ф12 (M8x15)	Ф15 (M8x15)	Ф20 (M12x25)		
	Ф50x1.5	3.816.SHC.ACC				
Steel, zinc plated	Ф60х2.0		3.816.SOC.ADC			
	Ф76х3.0			3.816.JSA.AEC		
Stianless steel	Ф50x1.5	3.816.NHC.BCC				
(304)	Ф60х2.0		3.816.NOC.BDC			
(304)	Ф76х3.0			3.816.NSC.BEC		



3826 Series Internal Thread

Tube Dia.(D)	Shaft Dia.(d)		Sprocket Type	Α	В	С	d1
Ф50	Ф12	BF/L=W+92	08B11T	17	22	18.5	Ф45.08
Ф60	Ф15	BF/L=W+92	08B14T	17	22	18.5	Ф57.07
Ф76	Ф20	BF/L=W+103	10A13T	20	25	18.5	Ф66.33

Tube	D*T	Shaft Dia.(d)				
Tube	ויט	Ф12 (M8x15)	Ф15 (M8x15)	Ф20 (M12x25)		
	Ф50x1.5	3.826.SHC.ACC				
Steel, zinc plated	Ф60х2.0		3.826.SOC.ADC			
	Ф76х3.0			3.826.JSA.AEC		
01: 1	Ф50x1.5	3.826.NHC.BCC				
Stianless steel	Ф60х2.0		3.826.NOC.BDC			
(304)	Ф76х3.0			3.826.NSC.BEC		



3816/3826 Series Accumulating Conveyor Roller

Duty Capacity Table of Accumulating Roller

3214/3224 Series Polymer Single/Double Sprocket Accumulating Roller

⚠ Duty capacity/ pc (No resistance from guardrail)

Roller material Conveying goods material	Steel tube	Rubber lagging
paper	3~20kg	2~15kg
plastic	5~25kg	2~20kg

3211/3221 Series Steel Single/Double Sprocket Accumulating Roller

⚠ Duty capacity/ pc (No resistance from guardrail)

Roller material Conveying goods material	Steel tube	Rubber lagging
paper	3~15kg	0.451
plastic	5~20kg	2~15kg

Steel Single/Double 3816/3826 Series Adjustable Accumulating Roller

△ Duty capacity/ pc (No resistance from guardrail)

Roller material Conveying goods material	Ф50x1.5	Ф60х2.0	Ф76х3.0
plastic	0 551	0. 701	0 4201
wood	0~55kg	0~70kg	0~120kg
paper	0~40kg		

Please contact us if out of above range.

Note: All duty capacity mentioned is in the status of free of guardrail resistance or roller guardrail.

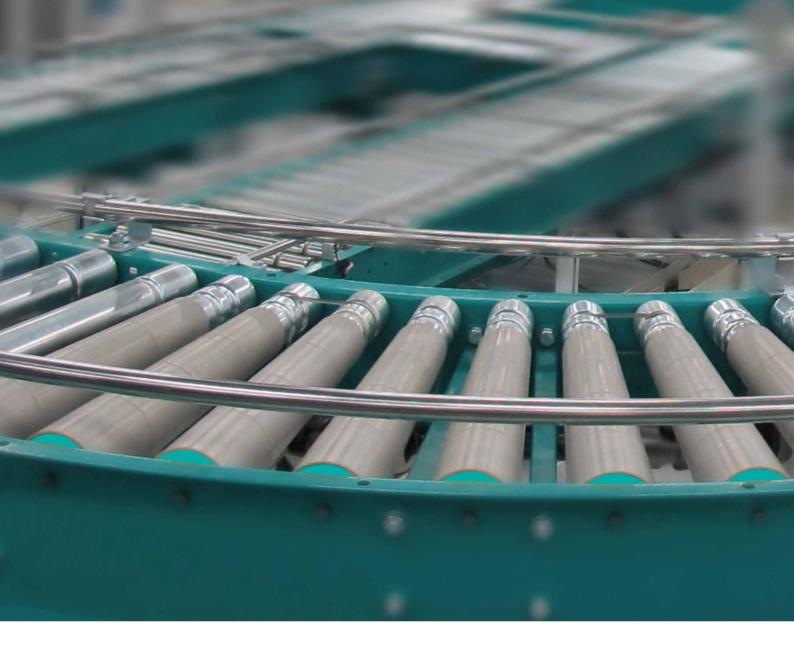
A Please pay attention to the effective driving force when using the accumulating roller.

It is suggested to adopt the roller guardrail to minimize the frictional resistance between the conveyed object and the guardrail.

In case of special conveyed objects or absence of experience in using it, please test the prototype first.





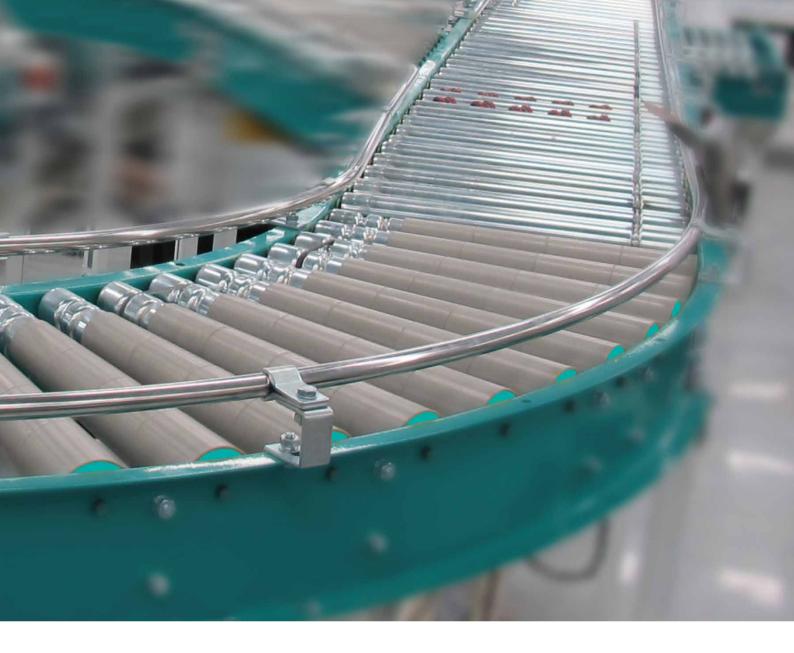


CURVE CONVEYING

The different diameters over the length the tapered roller i.e. small one end and large the other end, provides a linear velocity to ensure smooth conveying of goods around the curve.

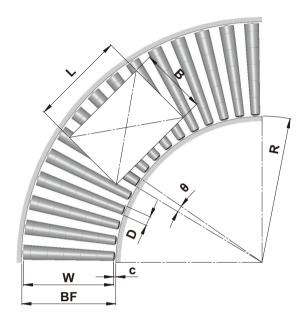
The roller axis is installed at a defined angle $\,\theta\,/2\,$ (θ =3.6°).





Rollers are listed according to their series and available features.

Product features	Series	Small head diameter	Driving element	Page
Tapered sleeve, attractive, low noise.	1600	Ф52.5/55.6		80-83
Tapered sleeve, O-Belt drive, light duty conveying, groove position customized.	2640	Ф52.5/55.6		84-86
Tapered sleeve, O-belt drive, light duty conveying, smooth running.	2660	Ф52.5/55.6		87-89
Tapered sleeve, poly-vee drive, Medium duty conveying, high speed, low noise.	2650	Ф52.5/55.6		90-92
Tapered sleeve, polymer sprocket, medium duty conveying, attractive, low noise.	2624	Ф52.5/55.6	17 mm	93-94
All-steel tapered tube, sturdy and durable.	1500	Ф50		95-96
Steel sprocket welded steel conical cylinder, suitable for medium load conveying, sturdy and durable.	2521	Ф50		97-99



Turn Radius

In theory, the geometric extension line of the tapered roller should join with the centre of the radius of the curve frame. By using this method, you can achieve the ideal curve for conveying. It may be calculated using the formula below:

$$R = \frac{D}{K} - c$$

In the formula:

R — turn (inner) radius

D — diameter of the smaller head of the taper roller

K — conical degree (the conical degree is expressed by fraction, eg. 1/16, 1/30, it's reduction formula is K=2*tan 0/2

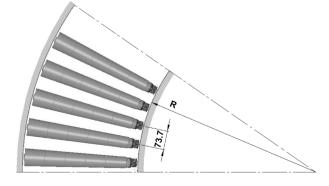
c — the space between the tapered roller's smaller head and the inner side of the frame.

Series	Taper	Small dia.(D)	Curve radius(R)
1600	2.00	52.5	830
2624	3.6°	55.6	880
2650	0.00	52.5	800
2660	3.6°	55.6	850
2640	0.00	52.5	760
2040	3.6°	55.6	810
1500 2521	3.6°	50	790

Roller Pitch

The design of roller pitch should follow the principle of "minimum 3 rollers to support the goods at any moment" (refer to P03)

For poly-vee tapered rollers the recommended pitch of poly-vee pulleys is 73.7mm.



Calculating Roller Length

For straight conveying, generally there is no need to consider the length of the goods but for curved conveying, the length and width of goods and the curve radius are all influencing factors. It may be calculated using the formula below:

BF =
$$\sqrt{(R+B)^2 + (L/2)^2} - R + (min.125)$$

In the formula:

BF—— frame inner width

R — turn (inner) radius

B — width of goods

L — length of goods

After confirming BF, you can calculate the roller length W and taper sleeve length WT by the available series of tapered roller. The tapered sleeve is the working surface of the tapered roller. The tapered sleeve length WT is available in increments of 50mm. Adjust the calculation result based on the formula.

E.g.: Wit=628, WT=595 Wit=561, WT=545

Based on the width of goods, the calculated roller length for a curve is longer than that for a straight conveyor. Typically, the length of the roller for the curve would be used as the default roller length for the entire conveyor system. Where it is not convenient to utilize a uniform roller length, a transitional straight conveyor will need to be installed.





1600 Series

Gravity Tapered Sleeve Roller

Product Features

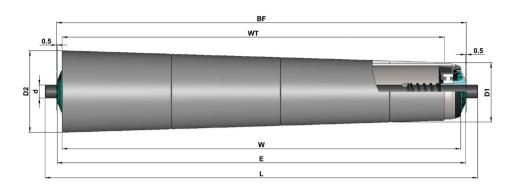
- Based on the 1200 Series, fitted with a grey polypropylene taper sleeve; abrasion resistant, low noise, shockproof.
- In the case of sensitive to static electricity, you can choose anti-static tapered sleeve (black), surface resistance value ≤ 10⁶Ω.
- The bearing end cap consists of a precision ball bearing, a polymer housing and end cap seal. Combined they provide an attractive, smooth and quite running roller.
- The design of the end cap protects the bearings by providing excellent resistance to dust and splashed water.
- The roller is light, easy to start-up.
- The weight of single items to be conveyed should not exceed 50kg.
- Temperature range: -5°C ~ 40°C.
- Humidity range: 30%~ 90% RH (non-condensation).
 Please contact us if humidity out of this scope.

Specifications

Bearing Unit	
Bearing housing	Polyamide, black
End cap	Polypropylene, Damon green
Precision ball bearing	6002



1600 Series Curve Conveyor Roller



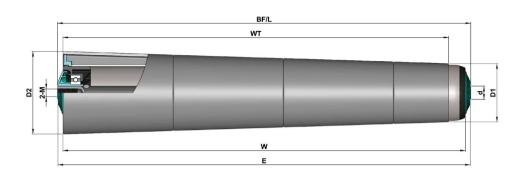
1600 Series Spring Loaded

Tube Dia. (D)	Shaft Dia.(d)			
Ф50	Ф12/11hex	BF=W+10	E=W+9	L=W+31

Tube	D*T	\\/T	WT D1	D1 D2	Shaft Dia.(d)	
Tube	וטו	VVI	וט	DZ	11hex	Ф12
		245	Ф55.6	Ф71		
		295	Ф52.5	Ф71		
		345	Ф55.6	Ф77.3		
Steel, zinc plated, tapered sleeve		395	Ф52.5	Ф77.3	1.600.SHJ.AFA	1.600.SHJ.ACA
Steet, zinc plated, tapered sieeve		445	Ф55.6	Ф83.6	1.000.5113.A1 A	1.000.SHJ.ACA
		495	Ф52.5	Ф83.6		
	Ф50x1.5	545	Ф55.6	Ф89.9		
		595	Ф52.5	Ф89.9		
		645	Ф55.6	Ф96.2		
		695	Ф52.5	Ф96.2		
		745	Ф55.6	Ф102.5		
		795	Ф52.5	Ф102.5		
Steel, zinc plated, tapered sleeve		845	Ф55.6	Ф108.8	4 000 0111/ 454	
(Static conductive version, black)		895	Ф52.5	Ф108.8	1.600.SHK.AFA	1.600.SHK.ACA
		945	Ф55.6	Ф115		
		995	Ф52.5	Ф115	1	
		1045	Ф55.6	Ф121.3	1	
		1095	Ф52.5	Ф121.3		

The taper sleeve length dimension (WT) is not accurate.





1600 Series Internal Thread

Tube Dia.(D)	Shaft Dia.(d)			
Ф50	Ф12/15	BF=W+10	E=W+9	L=W+10

Tube	D*T	WT	D1	D2	Shaft D	ia.(d)
Tube	וטו	**		DZ	Ф12 (M8x15)	Ф15 (M18x20)
		245	Ф55.6	Ф71		
		295	Ф52.5	Ф71		
		345	Ф55.6	Ф77.3		
Steel, zinc plated, tapered sleeve		395	Ф52.5	Ф77.3	1.600.SHJ.ACC	1.600.SHJ.ADC
Steel, Zille plated, tapered sieeve		445	Ф55.6	Ф83.6	1.000.0110.700	1.000.313.ADC
		495	Ф52.5	Ф83.6		
	- Ф50х1.5	545	Ф55.6	Ф89.9		
		595	Ф52.5	Ф89.9		
	Ψ30Χ1.3	645	Ф55.6	Ф96.2		
		695	Ф52.5	Ф96.2		
		745	Ф55.6	Ф102.5		
		795	Ф52.5	Ф102.5		
Steel, zinc plated, tapered sleeve		845	Ф55.6	Ф108.8	1.600.SHK.ACC	1.600.SHK.ADC
(Static conductive version,black)		895	Ф52.5	Ф108.8	1.000.31IN.ACC	1.000.31 IK.ADC
		945	Ф55.6	Ф115		
		995	Ф52.5	Ф115		
		1045	Ф55.6	Ф121.3		
		1095	Ф52.5	Ф121.3		

The taper sleeve length dimension (WT) is not accurate.



2640 Series Curve Conveyor Roller



2640 Series

Double Grooved Tapered Sleeve Roller

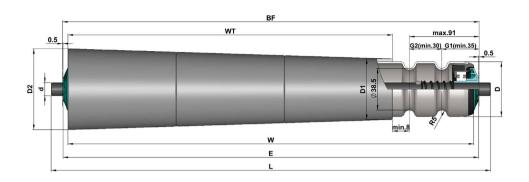
Product Features

- Based on the 2240 Series, cover ed with grey polypropylene taper sleeve; abrasion resistant, low noise, shockproof.
- In the case of sensitive to static electricity, you can choose anti-static tapered sleeve (black), surface resistance value ≤ 10⁶Ω.
- The bearing end cap consists of a precision ball bearing, a polymer housing and end cap seal. Combined they provide an attractive, smooth and quite running roller.
- The design of the end cap protects the bearings by providing excellent resistance to dust and splashed water.
- The roller is light, easy to start-up.
- The position of the grooves can be customized.
- The duty capacity of the roller depends on the drive capacity of the O-belt.
 The weight of single items to be conveyed should not exceed 30kg.
- Temperature range: −5°C ~ 40°C.
- Humidity range: 30%~ 90% RH (non-condensation).
 Please contact us if humidity out of this scope.

Specifications

Bearing Unit	
Bearing housing	Polyamide, black
End cap	Polypropylene, Damon green
Precision ball bearing	6002





2640 Series Spring Loaded

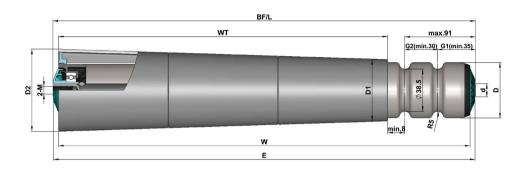
Tube Dia.(D)	Shaft Dia.(d)				G1	G2
Ф50	Ф12/11hex	BF=W+10	E=W+9	L=W+31	35	30

Tube	D*T	WT	D1	D2	Shaft D	Dia.(d)
Tube	01			DZ	11hex	Ф12
		245	Ф55.6	Ф71		2.640.SHJ.ACA
		295	Ф52.5	Ф71		
		345	Ф55.6	Ф77.3		
Steel, zinc plated, tapered sleeve		395	Ф52.5	Ф77.3	2.640.SHJ.AFA	
Stool, Zino piatoa, tapor sa diseve		445	Ф55.6	Ф83.6	2.010.0110.7474	
	Ф50x1.5	495	Ф52.5	Ф83.6		
		545	Ф55.6	Ф89.9		
		595	Ф52.5	Ф89.9		
	Ψ30Χ1.3	645	Ф55.6	Ф96.2		
		695	Ф52.5	Ф96.2		
		745	Ф55.6	Ф102.5		
		795	Ф52.5	Ф102.5		
Steel, zinc plated, tapered sleeve		845	Ф55.6	Ф108.8	2.640.SHK.AFA	2.640.SHK.ACA
(Static conductive version,black)		895	Ф52.5	Ф108.8	2.040.31 IX.AI A	2.040.51 IN.AGA
		945	Ф55.6	Ф115		
		995	Ф52.5	Ф115		
		1045	Ф55.6	Ф121.3		
		1095	Ф52.5	Ф121.3		

The taper sleeve length dimension (WT) is not accurate.



2640 Series Curve Conveyor Roller



2640 Series Internal Thread

Tube Dia.(D)	Shaft Dia.(d)				G1	G2
Ф50	Ф12/15	BF=W+10	E=W+9	L=W+10	35	30

Tube	D*T WT	D1	D2	Shaft	Dia.(d)	
Tube	וט			DZ	Ф12 (M8x15)	Ф15 (M10x20)
		245	Ф55.6	Ф71		
		295	Ф52.5	Ф71		
		345	Ф55.6	Ф77.3		
Steel, Zinc-plated, tapered sleeve		395	Ф52.5	Ф77.3	2.640.SHJ.ACC	2.640.SHJ.ADC
Steel, Zine plated, tapered sieeve		445	Ф55.6	Ф83.6	2.040.0110.7100	2.040.3110.ADC
		495	Ф52.5	Ф83.6		
	Ф50x1.5	545	Ф55.6	Ф89.9		
		595	Ф52.5	Ф89.9		
	Ψ30λ1.3	645	Ф55.6	Ф96.2	_	
		695	Ф52.5	Ф96.2		
		745	Ф55.6	Ф102.5		
		795	Ф52.5	Ф102.5		
Steel, zinc plated, tapered sleeve		845	Ф55.6	Ф108.8	2.640.SHK.ACC	2.640.SHK.ADC
(Static conductive version,black)		895	Ф52.5	Ф108.8	2.040.SHN.ACC	2.040.SHN.ADC
		945	Ф55.6	Ф115		
		995	Ф52.5	Ф115		
		1045	Ф55.6	Ф121.3		
		1095	Ф52.5	Ф121.3		

The taper sleeve length dimension (WT) is not accurate.





2660 Series

Double Groove O-Belt Pulley Tapered Sleeve Roller

Product Features

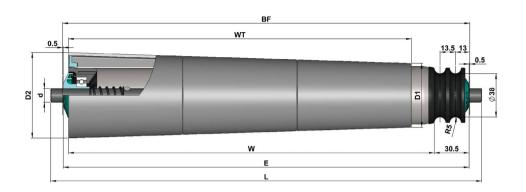
- Based on the 2260 Series, covered with grey polypropylene taper sleeve; abrasion resistant, low noise, shockproof.
- In the case of sensitive to static electricity, you can choose anti-static tapered sleeve (black), surface resistance value $\leq 10^6 \Omega$.
- The O-belt pulley is located on the head end of the roller which separates the drive area and the conveying area avoiding interference between the O-belt and the conveyed goods.
- The bearing end cap consists of a precision ball bearing, a polymer housing and end cap seal. Combined they provide an attractive, smooth and quite running roller.
- The design of the end cap protects the bearings by providing excellent resistance to dust and splashed water.
- Because there is no grooving on the tube, the tube will not have any distortion and the roller will run more smoothly.
- The duty capacity of the roller depends on the drive capacity of the O-belt. The weight of single items to be conveyed should not exceed 30kg.
- Temperature range: −5°C ~ 40°C.
- Humidity range: 30%~ 90% RH (non-condensation).
 Please contact us if humidity out of this scope.

Specifications

Bearing Unit	
Bearing housing	Polyamide, black
End cap	Polypropylene, Damon green
Precision ball bearing	6002
Drive Element	
O-belt pulley	Polyamide, black



2660 Series Curve Conveyor Roller



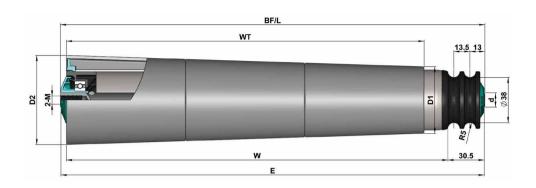
2660 Series Spring Loaded

Tube Dia.(D)	Shaft Dia.(d)			
Ф50	Ф12/11hex	BF=W+36	E=W+35	L=W+57

Tube	D*T	WT	D1	D2	Shaft	Dia.(d)
Tube				DZ	11hex	Ф12
		245	Ф55.6	Ф71		2.660.SHJ.ACA
		295	Ф52.5	Ф71		
		345	Ф55.6	Ф77.3		
Steel, zinc plated, tapered sleeve		395	Ф52.5	Ф77.3	2.660.SHJ.AFA	
Steel, Zille plated, tapered sieeve		445	Ф55.6	Ф83.6	2.000.0110.A1 A	
		495	Ф52.5	Ф83.6		
	ΦΕ04.Ε	545	Ф55.6	Ф89.9		
		595	Ф52.5	Ф89.9		
	Ф50x1.5	645	Ф55.6	Ф96.2		
		695	Ф52.5	Ф96.2		
		745	Ф55.6	Ф102.5		
		795	Ф52.5	Ф102.5		
Steel, zinc plated, tapered sleeve		845	Ф55.6	Ф108.8	2.660.SHK.AFA	2.660.SHK.ACA
(Static conductive version,black)		895	Ф52.5	Ф108.8	2.000.5HN.AFA	2.000.5HK.ACA
		945	Ф55.6	Ф115		
		995	Ф52.5	Ф115		
		1045	Ф55.6	Ф121.3		
		1095	Ф52.5	Ф121.3	1	

The taper sleeve length dimension (WT) is not accurate.





2660 Series Internal Thread

Tube Dia.(D)	Shaft Dia.(d)			
Ф50	Ф12/15	BF=W+36	E=W+35	L=W+36

Tube	D*T	WT	D1	D2	Shaft	:Dia.(d)
Tube	l Di Wi	VVI	VV D1	DZ	Ф12 (M8x15)	Ф15 (M10x20)
		245	Ф55.6	Ф71		
		295	Ф52.5	Ф71		
		345	Ф55.6	Ф77.3		
Steel, zinc plated, tapered sleeve		395	Ф52.5	Ф77.3	2.660.SHJ.ACC	2.660.SHJ.ADC
Steel, zille plated, tapered sieeve		445	Ф55.6	Ф83.6	2.000.0110.700	2.000.SH3.ADC
		495	Ф52.5	Ф83.6		
	- Ф50х1.5	545	Ф55.6	Ф89.9		
		595	Ф52.5	Ф89.9		
	Ψ30Χ1.3	645	Ф55.6	Ф96.2		
		695	Ф52.5	Ф96.2		
		745	Ф55.6	Ф102.5		
		795	Ф52.5	Ф102.5		
Steel, zinc plated, tapered sleeve		845	Ф55.6	Ф108.8	2.660.SHK.ACC	2.660.SHK.ADC
(Static conductive version,black)		895	Ф52.5	Ф108.8	2.000.SHN.ACC	2.000.3HK.ADC
		945	Ф55.6	Ф115		
		995	Ф52.5	Ф115		
		1045	Ф55.6	Ф121.3		
		1095	Ф52.5	Ф121.3		

The taper sleeve length dimension (WT) is not accurate.



2650 Series Curve Conveyor Roller



2650 Series

Poly-Vee Tapered Sleeve Roller

Product Features

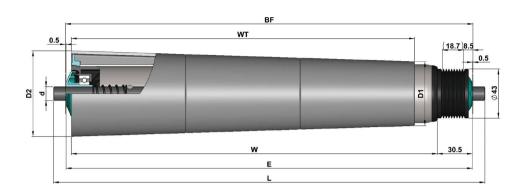
- Based on the 2250 Series, covered with grey polypropylene taper sleeve; abrasion resistant, low noise, shockproof.
- In the case of sensitive to static electricity, you can choose anti-static tapered sleeve (black), surface resistance value ≤ 10⁶Ω.
- The poly-vee pulley is located on the head end of the roller which separates
 the drive area and the conveying area avoiding interference between the
 poly-vee belt and the conveyed goods.
- The bearing end cap consists of a precision ball bearing, a polymer housing and end cap seal. Combined they provide an attractive, smooth and quite running roller.
- The design of the end cap protects the bearings by providing excellent resistance to dust and splashed water.
- ISO9982 PJ series poly-vee. Total of 9 grooves at 2.34mm pitch.
- The duty capacity of the roller depends on the type of poly-vee belt and transmission layout. The weight of single items to be conveyed should not exceed 50kg.
- The roller is light, easy start-up.
- Temperature range: −5°C ~ 40°C.
- Humidity range: 30%~ 90% RH (non-condensation).
 Please contact us if humidity out of this scope.

Specifications

Bearing Unit	
Bearing housing	Polyamide, black
End cap	Polypropylene, Damon green
Precision ball bearing	6002
Drive Element	
Poly-vee pulley	Polyamide, black

Optional Poly-vee belt





2650 Series Spring Loaded

Tube Dia.(D)	Shaft Dia.(d)			
Ф50	Ф12/11hex	BF=W+36	E=W+35	L=W+57

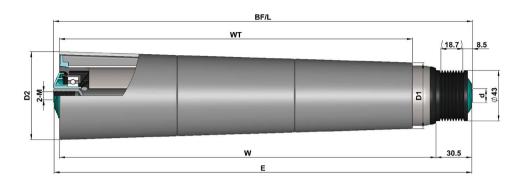
Tubo	Tube D*T WT D1 D	D2	Shaft	Dia.(d)		
Tube		**	DZ	11hex	Ф12	
		245	Ф55.6	Ф71		
		295	Ф52.5	Ф71		
		345	Ф55.6	Ф77.3		
Steel, zinc plated, tapered sleeve		395	Ф52.5	Ф77.3	2.650.SHJ.AFA	2.650.SHJ.ACA
Steel, Zille plated, tapered steeve		445	Ф55.6	Ф83.6	2.000.0110.717	2.030.5H3.AGA
		495	Ф52.5	Ф83.6		
	Ф50x1.5	545	Ф55.6	Ф89.9		
		595	Ф52.5	Ф89.9		
	Ψ30Χ1.3	645	Ф55.6	Ф96.2		2.650.SHK.ACA
		695	Ф52.5	Ф96.2		
		745	Ф55.6	Ф102.5		
		795	Ф52.5	Ф102.5		
Steel, zinc plated, tapered sleeve		845	Ф55.6	Ф108.8	2.650.SHK.AFA	
(Static conductive version,black)		895	Ф52.5	Ф108.8	2.03U.SHK.AFA	
		945	Ф55.6	Ф115		
		995	Ф52.5	Ф115		
		1045	Ф55.6	Ф121.3		
		1095	Ф52.5	Ф121.3		

The taper sleeve length dimension (WT) is not accurate.

⚠ Please choose the steel Poly-Vee roller when you must use 4PJ belt.



2650 Series Curve Conveyor Roller



2650 Series Internal Thread

Tube Dia.(D)	Shaft Dia.(d)			
Ф50	Ф12/15	BF=W+36	E=W+35	L=W+36

Tube	D*T	WT D1	WT D1	D1 D2	Shaft D	ia.(d)
Tube		VV 1	וט	DZ	Ф12 (M8x15)	Ф15 (M10x20)
		245	Ф55.6	Ф71		
		295	Ф52.5	Ф71		
		345	Ф55.6	Ф77.3		
Steel, zinc plated, tapered sleeve		395	Ф52.5	Ф77.3	2.650.SHJ.ACC	2.650.SHJ.ADC
oteel, zine plated, tapered siceve		445	Ф55.6	Ф83.6	2.000.0110.7100	2.000.3113.ADC
		495	Ф52.5	Ф83.6		
	Ф50x1.5	545	Ф55.6	Ф89.9		
		595	Ф52.5	Ф89.9		
	Ψ30λ1.3	645	Ф55.6	Ф96.2		2.650.SHK.ADC
		695	Ф52.5	Ф96.2		
		745	Ф55.6	Ф102.5		
		795	Ф52.5	Ф102.5		
Steel, zinc plated, tapered sleeve		845	Ф55.6	Ф108.8	2.650.SHK.ACC	
(Static conductive version,black)		895	Ф52.5	Ф108.8	2.650.SHK.ACC	
		945	Ф55.6	Ф115		
		995	Ф52.5	Ф115		
		1045	Ф55.6	Ф121.3		
		1095	Ф52.5	Ф121.3		

The taper sleeve length dimension (WT) is not accurate.

⚠ Please choose the steel Poly-Vee roller when you must use 4PJ belt.





2624 Series

Polymer Sprocket Tapered Sleeve Roller

Product Features

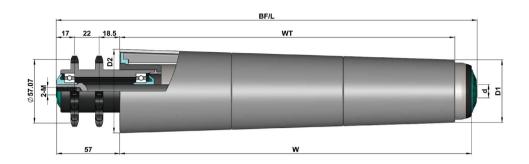
- Based on the 2224 Series, covered with grey polypropylene taper sleeve; abrasion resistant, low noise, shockproof.
- In the case of sensitive to static electricity, you can choose anti–static tapered sleeve (black), surface resistance value ≤ 10⁶Ω.
- Using the polyamide sprocket roller as the drive element reduces the running noise.
- The bearing end cap consists of a precision ball bearing, a polymer housing and end cap seal. Combined they provide an attractive, smooth and quite running roller.
- The design of the end cap protects the bearings by providing excellent resistance to dust and splashed water.
- To avoid abrasion between the sprocket and chain, the angle between tapered rollers should not exceed 5°.
- The weight of single items to be conveyed should not exceed 50kg.
- Temperature range: −5°C ~ 40°C.
- Humidity range: 30%~ 90% RH (non-condensation).
 Please contact us if humidity out of this scope.

Specifications

Bearing Unit	
Bearing housing	Polyamide, black
End cap	Polypropylene, Damon green
Precision ball bearing	6002
Drive Element	
Sprocket	Polyamide, black



2624 Series Curve Conveyor Roller



2624 Series Female Thread

Tube Dia.(D)	Shaft Dia.(d)			Sprocket type
Ф50	Ф12/15	BF=W+63	L=W+63	08B14T

Tube	D*T	D*T WT D1		D1 D2	Shaft Dia.(d)	
Tube	וט	VVI	וט	DZ	Ф12 (M8x15)	Ф15 (M10x20)
		245	Ф55.6	Ф71		2.624.SHJ.ADC
		295	Ф52.5	Ф71		
		345	Ф55.6	Ф77.3		
Steel, zinc plated, tapered sleeve		395	Ф52.5	Ф77.3	2.624.SHJ.ACC	
Steel, Zille plated, tapered sleeve		445	Ф55.6	Ф83.6	2.024.0110.700	
		495	Ф52.5	Ф83.6		
	Ф50x1.5	545	Ф55.6	Ф89.9		
		595	Ф52.5	Ф89.9		
	Ψ30λ1.3	645	Ф55.6	Ф96.2		2.624.SHK.ADC
		695	Ф52.5	Ф96.2		
		745	Ф55.6	Ф102.5		
		795	Ф52.5	Ф102.5		
Steel, zinc plated, tapered sleeve		845	Ф55.6	Ф108.8	2.624.SHK.ACC	
(Static conductive version, black)		895	Ф52.5	Ф108.8	2.624.SHK.ACC	
		945	Ф55.6	Ф115		
		995	Ф52.5	Ф115		
		1045	Ф55.6	Ф121.3		
		1095	Ф52.5	Ф121.3		

The taper sleeve length dimension (WT) is not accurate.





1500 Series

Gravity Steel Tapered Roller

Product Features

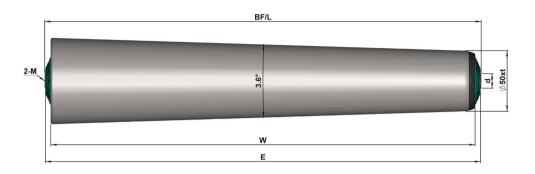
- All steel tube, more sturdy and durable.
- Precision ball bearings and polyamide bearing housing interior and outside design make up the key bearing assembly, which is not only beautiful, more importantly, the roller runs more quietly.
- The design of the polyamide end cap of the roller can prevent the damage of dust and splashing water to the bearing to a certain extent.
- Tube standard taper 3.6° (taper can be customized).
- Usually, the weight of the goods suitable for transportation is not more than 200kg.
- Temperature range: -5°C~+40°C.
- Humidity range: 30% ~ 90% RH (non-condensation).
 Please contact us if humidity out of this scope.

Specifications

Bearing Unit	
Bearing housing	Polyamide black
End cap	Polypropylene, Damon green
Precision ball bearing	6002



1500 Gravity steel tapered roller



1500 Series Internal Thread

Tube Dia.(D)	Shaft Dia.(d)			
Ф50	Ф12/15	BF=W+10	E=W+9	L=W+10

Tube	D*T	Shaft Dia.(d)		
Tube	וייט	Ф12 (M8x15)	Ф15 (M10x20)	
Steel, zinc plated	Φ50γ2.0	1.500.JWB.ACC	1.500.JWB.ADC	
SS	Ф50х2.0	1.500.NWC.BCC	1.500.NWC.BCC	

If used in high and low temperature or special environment, please specify clearly.





2521 Series

Sprocket Steel Tapered Roller

Product Features

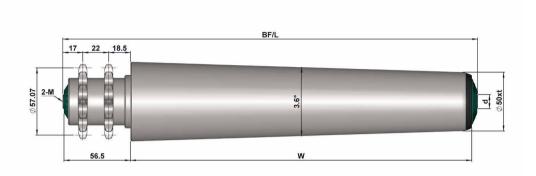
- All steel cylinder, more sturdy and durable.
- The steel sprocket is welded with the tube, so that it can deliver higher torque and meet the requirements of medium and heavy load transmissi -on.
- The design of the polyamide end cap of the roller can prevent the damage of dust and splashing water to the bearing to a certain extent.
- Tube standard taper 3.6° (taper can be customized).
- In order to achieve more rational turning performance, sprocket tooth
- thickness is slightly smaller than the conventional.
- Usually, the weight of the goods suitable for transportation is not more than 200kg.
- Temperature range: -5°C~+40°C.
- Humidity range: 30%~ 90% RH (non-condensation).
 Please contact us if humidity out of this scope.

Specifications

Bearing Unit	
Bearing housing	Polyamide black
End cap	Polypropylene, Damon green
Precision ball bearing	6002
Drive Element	
Sprocket	Steel



2521 Sprocket steel steel tapered roller



2521 Series Internal Thread

Tube Dia.(D)	Shaft Dia.(d)			Sprocket type
Ф50	Ф12/15	BF=W+62	L=W+62	08B14T

T. b.	D*T	Shaft Dia.(d)		
Tube	D*T	Ф12 (M8x15)	Ф15 (M10x20)	
Steel, zinc plated	ΦΕ0ν2.0	2.521.JWB.ACC	2.521.JWB.ADC	
SS	Ф50x2.0	2.521.NWC.BCC	2.521.NWC.BDC	

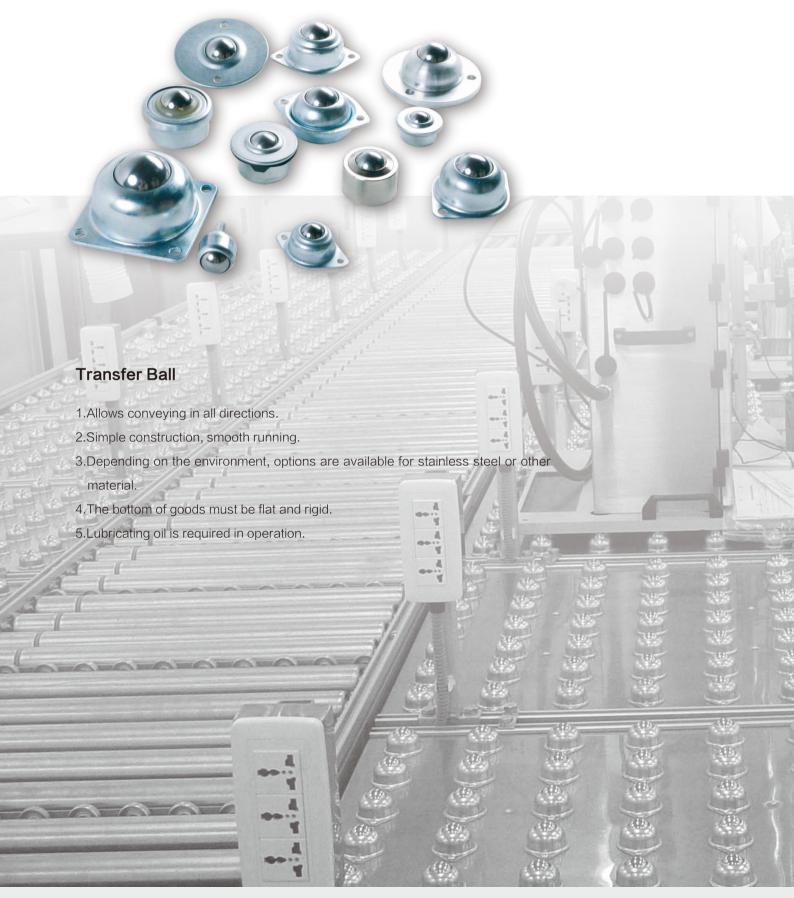
If used in high and low temperature or special environment, please specify clearly.







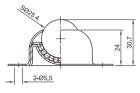
Ball Transfer

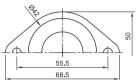




WA-01-A



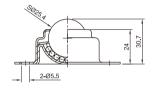


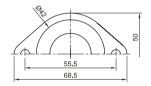


Body & surface	Steel, zinc plated
Ball material	Q235
Static load(kg)	25
Dynamic load(kg)	30
Weight(g)	142

WA-01-B



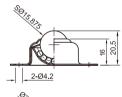


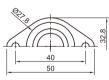


Body & surface	Stainless steel, 304
Ball material	Stainless steel, 202
Static load(kg)	25
Dynamic load(kg)	30
Weight(g)	136

WA-01-C



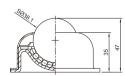


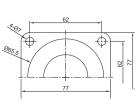


Body & surface	Steel, zinc plated
Ball material	Q235
Static load(kg)	15
Dynamic load(kg)	20
Weight(g)	38

WA-02







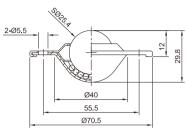
Body & surface	Steel, zinc plated
Ball material	Q235
Static load(kg)	90
Dynamic load(kg)	110
Weight(g)	480



Ball Transfer

WB-01

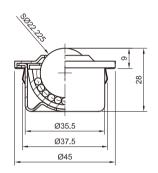




Body & surface	Steel, zinc plated
Ball material	Q235
Static load(kg)	45
Dynamic load(kg)	55
Weight(g)	147

WC-02-T

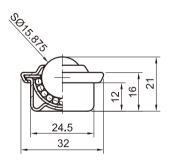




Body & surface	Steel, zinc plated
Ball material	Q235
Static load(kg)	40
Dynamic load(kg)	50
Weight(g)	126

WC-03

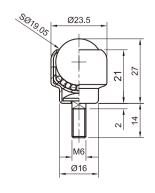




Body & surface	Steel, zinc plated
Ball material	Q235
Static load(kg)	15
Dynamic load(kg)	17
Weight(g)	44

WD-01



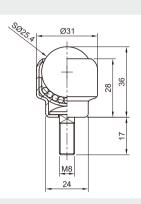


Body & surface	Steel, zinc plated
Ball material	Q235
Static load(kg)	30
Dynamic load(kg)	40
Weight(g)	50



WD-02

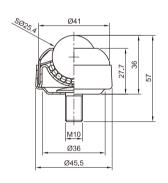




Body & surface	Steel, zinc plated
Ball material	Q235
Static load(kg)	40
Dynamic load(kg)	50
Weight(g)	117

WD-03

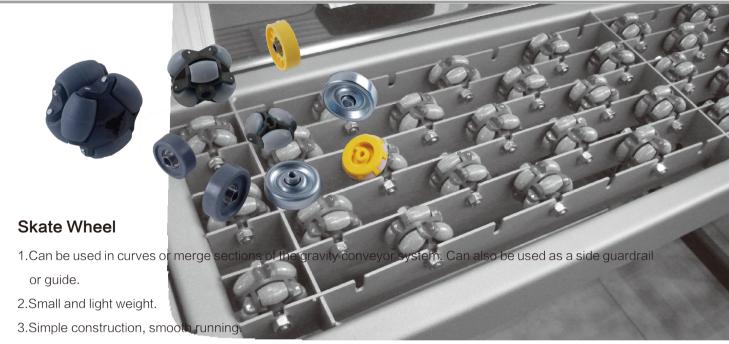




Body & surface	Steel, zinc plated
Ball material	Q235
Static load(kg)	40
Dynamic load(kg)	50
Weight(g)	171

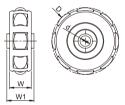


Skate Wheel



- 4. Depending on the environment, options are available for steel or plastic wheels.
- 5. The bottom of goods must be flat and rigid.

GD Series



Series	Mateiral	d	D	W	W1	Static load(kg)	Dynamic load (kg)	Weight (g)
GD-01A-8		Ф8.3	Φ51	16.5	20.5			29
GD-02A-12		Ф12.3	Φ51	16.5	20.5	8		27
GD-01B-10		Ф10.2	Φ51	16.5	16.5		10	27
GD-01C-13		Ф13.5	Ф51	16.5	16.5			26
GD-02-13K	POM+PA6	Ф13	Ф51	16.5	16.5			25
GD-02E-6	POW+PA0	Ф6.5	Ф51	16.5	16.5			26
GD-03A-10		Ф10.5	Φ40	15	15			14
GD-03C-10		Ф10	Ф30	12	12			7







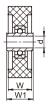






GA-01 Series



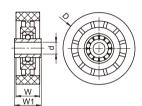




Series	Material	d	D	W	W1	Static load(kg)	Dynamic load(kg)	Weight (g)
GA-01-8	ABS	Φ8.1	Ф48.5	16	18	40	60	35
GA-01A-8	ABS	Ф8.1	Ф38	14.3	18	35	50	26

GA-02 Series

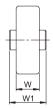




						Static load(kg)		Weight (g)
GA-02-8	ABS	Ф8.1	Ф48.5	16	18	40	60	30

GB Series



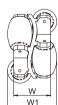


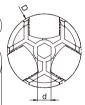


Series	Material	d	D	W	W1	Static load(kg)	Dynamic load(kg)	Weight (g)
GB-02A-8	Steel, zinc plated	Ф8.1	Φ49	14.5	20.6	10	15	66

WH Series



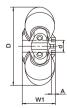


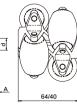


Series	Material	d	D	W	W1	Static load(kg)	Dynamic load(kg)	Weight (g)
WH-01-11hex	D	11hex	Φ60	30	40	25	25	75
WH-01-11hex WH-02-12	Reinforced	Ф12	Φ60	30	40	25	25	75
	nyion							

WE Series





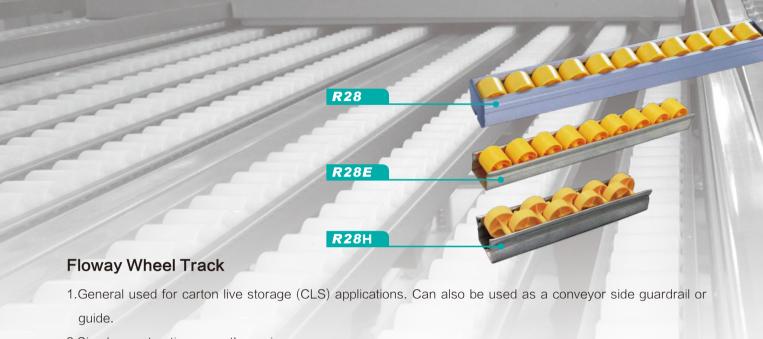


Two combinations

Series	Material	d	D	W1	Α	Static load(kg)	Dynamic load(kg)	Weight (g)
WE-01-12	PA66	Ф12.5	Φ80	34	4	25	25	100
WE-02-8	PA66	Ф8.3	Φ48	21.5	3	10	10	20

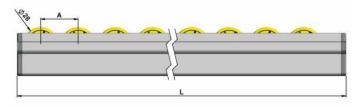


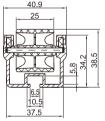
Floway Wheel Track



- 2. Simple construction, smooth running.
- 3. When used in a decline application, the angle depends on the weight and bottom surface of the goods. Typical angle $3-6^{\circ}$.
- 4. Typically supported with a frame every 600 800mm.

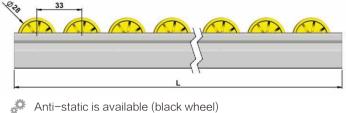


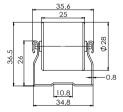




Frame	Aluminum
Wheel	ABS
Load	12.5kg/m
Whell picth	A=30/45mm
Part No.	R28-A-L

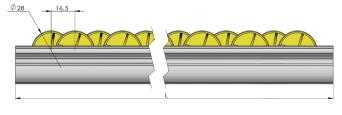
R₂8E

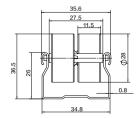




Steel, zinc-plated
ABS
12.5kg/m
R28E-L

R28H





Frame	Steel, zinc-plated
Wheel	ABS
Load	12.5kg/m
Part No.	R28H-L



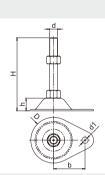
Adjustable Foot

- 1.Threaded height adjustment. Used to level or adjust the height or incline of a conveyor.
- 2. Manufactured from zinc plated steel. Stainless steel options available.



BA Series

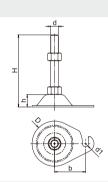




Туре	d	D	Н	h	b	d1	Load(kg)	Weight(g)
BA-14	M14	Ф80	128	22	55	Ф11	160	290
BA-16	M16	Φ80	156	22	55	Ф11	180	367

BB Series

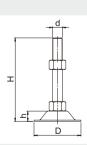




Туре	d	D	Н	h	b	d1	Load(kg)	Weight(g)
BB-14	M14	Ф80	128	22	55	Ф11	160	295
BB-16	M16	Ф80	156	22	55	Ф11	180	363

BJ Series

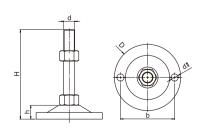




Type	d	D	Н	h	Load(kg)	Weight(g)
BJ-12	M12	Φ68	116	15	80	153
BJ-16	M16	Φ68	148	14	140	293

BF Series





Type	d	D	Н	h	b	d1	Load(kg)	Weight(g)
BF-20	M20	Ф120	162	25	98	Ф12	300	1400

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