



Conveyor Roller Catalogue



ABOUT DAMON INUSTRY



GLOBAL LEADING MANUFACTURER OF CONVEYOR ROLLERS

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

Zhejiang Damon Industry Equipment Co. Ltd, since its establishment in 1997, 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 products covering a variety of specifications to suit user's 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 greater market share. From introducing the complete information based ERP management system to the independent research and development of the online roller dimensional drawing system service and then launched industrial's first functional APP, we are viewing our market from a brand new perspective and are pleased 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 mission of "Creating value for customer's logistics systems", Damon Industry will strive for the vision of becoming "The most influential core components supplier and service provider for the global materials handling industry".

CONTENTS

Roller Overview	02–13	sprocket roller with polymer bearing housing
Conveyor Roller Selection	02	2311/2321 series steel single/double
Load Capacity	04	Sprocket roller with steel bearing housing
Run Out	···· 04	Accumulating Conveyor Roller Series 66-75
Tube	···· 05	3214/3224 series polymer single/double 68 sprocket accumulating roller
Shaft	08	·
Bearing	···· 10	3211/3221 series steel single/double 70 sprocket accumulating roller
Roller Part Number (order code)	···· 11	3816/3826 series steel single/double
Dimensional Drawing Download	···· 12	
Additional Design Information	···· 13	Curve Conveyor Roller Series 76-97
Gravity Conveyor Roller Series	14-33	1600 series gravity tapered sleeve roller 78
	······· 16	2640 series double grooved
1100 series light/medium duty conveyor rolle	r ··· 18	2660 series O-belt
1200 series universal conveyor roller	···· 23	2650 series poly-vee tapered sleeve roller 88
1800 series medium/heavy duty conveyor roller	········ 28	2624 series polymer
		1500 series gravity steel tapered roller 93
Driven Conveyor Roller Series	34–65	2521 series sprocket steel tapered roller 95
2230/2240 series single/double grooved O-belt conveyor roller	···· 36	
2260 series double groove	···· 42	Components 98-105
2250 series poly-vee conveyor roller	···· 46	Ball transfer
2280 series timing belt	···· 50	Skate wheel
pulley conveyor roller		Floway wheel track
2214/2224 series polymer single/double sprocket roller	···· 52	Adjustable foot



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:

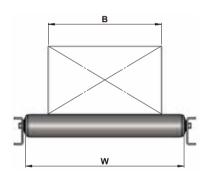
$W=B+\triangle B$

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

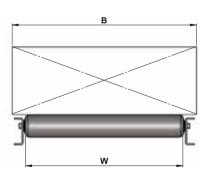
 \triangle **B** — width allowance, typically add 50 ~ 150 (mm)



For curved conveying, please refer to P76 for roller length



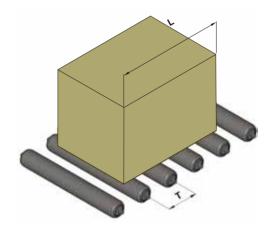
For goods with a very hard, sturdy base, where safety and normal conveying is not compromised, the width of the goods can exceed the length of the roller i.e. W≥0.8B.





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
- ♦ 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
- ♦ Steel tapered roller: 1500, 2521 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:

- 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:

- 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 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 loading of driven roller. Load: Roller's maximum weight 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.

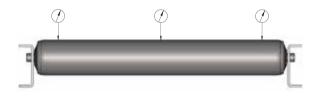
Damon's conveyor rollers utilize high quality materials and strict manufacturing processes to ensure better run out performance than specified by JB/T 7012–2008.

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

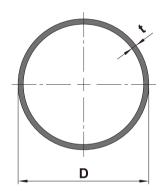




Tube Material

Steel

Following the ongoing development of tube making and welding techniques, steel pipes with a longitudinal electric weld, commonly known as Welded Tube, has been replaced with hot rolled seamless tube and has become the most commonly used material for conveyor roller manufacturing. Hot rolled seamless tube satisfies the requirements for mechanical properties and curvature. The advantages of hot rolled seamless tube 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
Φ60	2.0
Ψ60	3.0
Φ76	3.0
Ψ76	4.0
Φ80	2.0
Ψ60	3.0
Φ89	3.0
Ψ89	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	0
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

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 μ 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, as high as 1200HV hardness value.
- 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

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. Good abrasion and heat resistance.
- 3.Low elasticity.
- 4. Poor cold and ozone resistance.
- 5.Low electrical insulation properties.

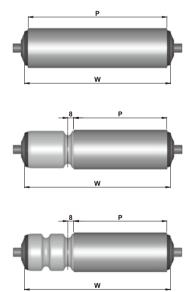
PVC Sleeve

As an alternative to traditional rubber lagging, you can select PVC 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.

Material	Soft PVC
Tube diameter	Ф50mm
Thickness	2mm
Colour	Grey, RAL7042
Hardness	Shore(A) 63 ± 5
Resistance	No resistance to oil and gasoline
Electrical insulation	Non-conducting
Suitable temperature	-25°C~+50°C
Other	Not food grade material



- 1. Typically the sleeve covers the roller's outside surface (As pictured).
 - 2.If you only require a portion of roller to be covered, please confirm the length of PVC sleeve (Min. 50mm) and the position.
 - 3. Where running the roller generates axial force, e.g. axial movement or axial push and pull, the length of PVC elastic sleeve should be increased.
 - 4. We recommend that the side of the roller with a groove should not be covered with a sleeve (As pictured).



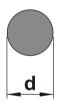


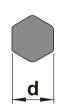
Roller Overview

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):

d: 11hex

Surface Treatment

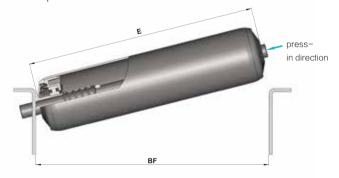
The standard shaft surface treatment is antirust oil. Zinc plated shafts are only used in stainless steel or PVC rollers.

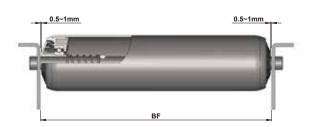
Installation Method

- 1.The roller installation method determines the complexity of roller assembly. Different installation methods also influence the load capacity of the roller.
- 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.

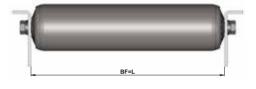






Internal thread:

- 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 Φ 8.5mm.
- 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:

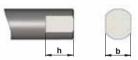


Nuts are required on the inside and outside of the frame to ensure the roller runs smoothly.

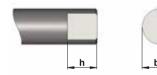
Flat milling:

- 1.Originating from the mining idler roller, 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	Inner ring	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

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 conveying
- 2 driven conveying
- 3 accumulating conveying

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.

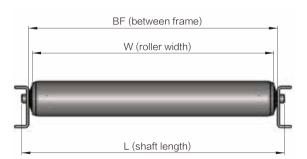
5 Length of shaft

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.





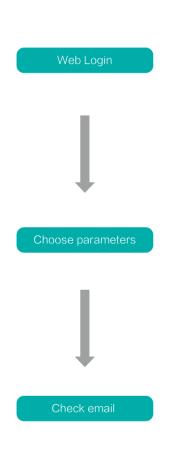
Roller Overview

Dimensional Drawing Download

Damon Industry developed the first web based roller dimensional 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 "Auto Drawing System"

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







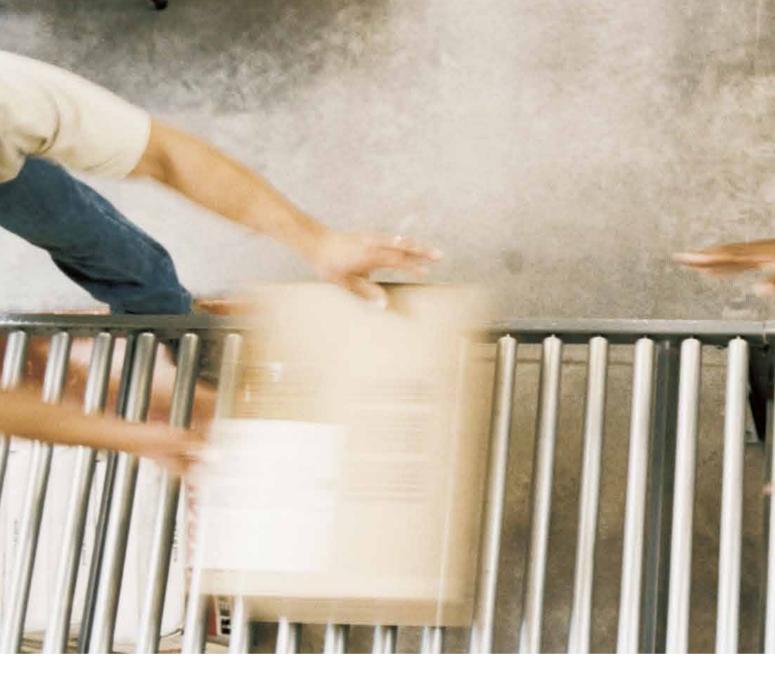




Additional Design Information

- 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
- 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. 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	Ф20/25/30/38/50/60	-	16-17
Semi precision bearing, light running, the ability to withstand impact loads is better than other series	1100	Ф18/25/38/50/60		18-22
Polymer bearing housing, most popular in carton conveyors, attractive and low noise.	1200	Ф38/48/50/60/80	-	23-27
Polymer bearing housing, strong and durable, available in many diameters, high load capacity.	1800	Ф38/50/60/76/80/89		28-33





1900 Series

Light Duty Conveyor Roller

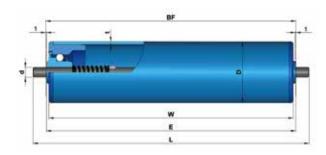
Products Features

- 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.

Specifications

Bearing Unit	
Bearing housing	POM
Ball	Stainless steel



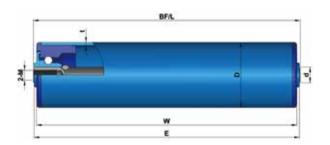


1900 Series Spring Loaded

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+10	E=W+8	L=W+30
Ф60	Ф12	BF=W+10	E=W+8	L=W+30

Tube	D*T			Shaft Dia.(d)	
Tube	וט	Ф6	Ф8	Ф10	Ф12
	Ф20x1.1	1.900.P2C.BAA			
	Ф25х1.8		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
	Ф60х3.0				1.900.PLC.BCA

O——Available configuration.



1900 Series Internal Thread

Tube Dia.(D)	Shaft Dia.(d)			
Ф50	Ф12	BF=W+10	E=W+8	L=W+10
Ф60	Ф12	BF=W+10	E=W+8	L=W+10

Tube	D*T	Shaft Dia.(d)
Tube	וט	Ф12 (M8x15)
PVC	Ф50х2.5	0
FVC	Ф60х3.0	0

○——Available configuration.





1100 Series

Light, Medium Duty Conveyor Roller

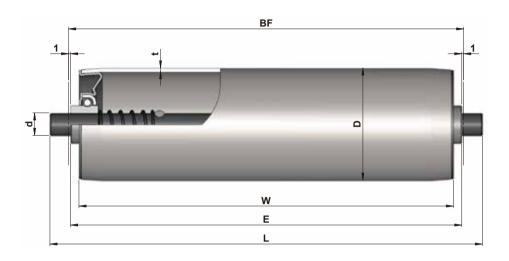
Products Features

- Fitted with specially designed semi-precision bearings, this roller is light and runs smoothly.
- 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.
- Cannot be used as belt conveyor idlers and friction belt conveyor.
- Temperature range: 20°C ~ + 80°C.

Specifications

Bearing Unit	
Semi-precision bearing	Steel, zinc plated





1100 Series Spring Loaded

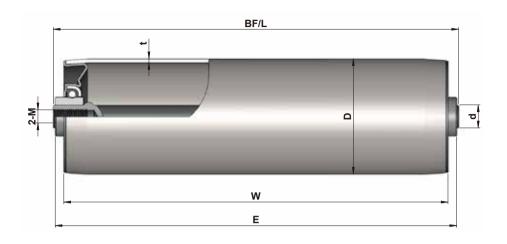
Tube Dia.(D)	Shaft Dia.(d)			
Ф18	Ф6	BF=W+6	E=W+4	L=W+26
Ф25	Ф6/8	BF=W+12	E=W+10	L=W+32
Ф38	Ф12	BF=W+9	E=W+7	L=W+29
Ф50	Ф8/12	BF=W+11	E=W+9	L=W+31
Ф60	Ф12	BF=W+11	E=W+9	L=W+31

Tube	D*T		Shaft	Dia.(d)
Tube	וט	Ф6	Ф8	Ф12
	Ф18х1.0	0		
	Ф25.6x1.0	1.100.SBC.AAA	1.100.SBC.ABA	
Steel, Zinc-plated	Ф38х1.2			1.100.SDC.ACA
	Ф50x1.5		1.100.JHA.ABA	1.100.JHA.ACA
	Ф60х2.0			1.100.JOA.ACA
	Ф25x0.7	0	0	
Stainless steel	Ф38х1.2			1.100.NDC.BCA
Stall liess steel	Ф50x1.5		1.100.NHC.BBA	1.100.NHC.BCA
	Ф60х2.0			1.100.NOC.BCA
	Ф25.6x1.0	1.100.ABC.AAA	1.100.ABC.ABA	
Aluminium	Ф50x1.5		1.100.AHC.ABA	1.100.AHC.ACA
	Ф60х2.0			1.100.AOC.ACA

Ф50 € 60mm rollers can be fitted with PVC sleeve (2mm).

O——Available configuration.





1100 Series Internal Thread

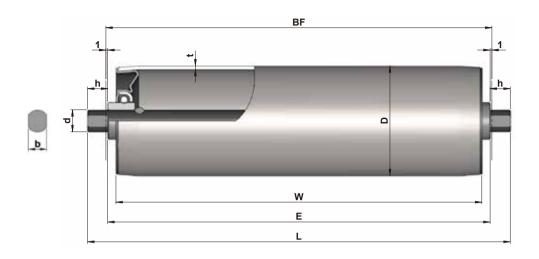
Tube Dia.(D)	Shaft Dia.(d)			
Ф25	Ф8	BF=W+12	E=W+10	L=W+12
Ф38	Ф12	BF=W+9	E=W+7	L=W+9
Ф50	Ф12	BF=W+11	E=W+9	L=W+11
Ф60	Ф12	BF=W+11	E=W+9	L=W+11

Tube	D*T		Shaft Dia.(d)
Tube	וט	Ф8 (M5x10)	Ф12 (M8x15)
	Ф25.6х1.0	0	
Steel, zinc plated	Ф38х1.2		1.100.SDC.ACC
Steel, Zinc plated	Ф50x1.5		1.100.JHA.ACC
	Ф60х2.0		1.100.JOA.ACC
	Ф25х0.7	0	
Stainless steel	Ф38х1.2		1.100.NDC.BCC
Stall liess steel	Ф50x1.5		1.100.NHC.BCC
	Ф60х2.0		1.100.NOC.BCC
	Ф25.6х1.0	0	
Aluminium	Ф50х1.5		1.100.AHC.ACC
	Ф60х2.0		1.100.AOC.ACC

○——Available configuration.

Ф50 € 60mm rollers can be fitted with PVC sleeve (2mm).





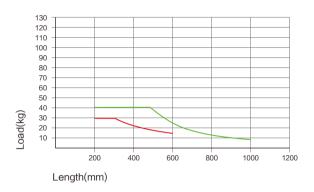
1100 Series Milled Flats

Tube Dia.(D)	Shaft Dia.(d)			
Ф38	Ф12	BF=W+9	E=W+7	L=W+29
Ф50	Ф12	BF=W+11	E=W+9	L=W+31
Ф60	Ф12	BF=W+11	E=W+9	L=W+31

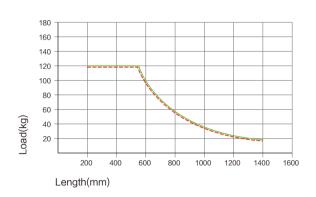
Tube	D*T	Shaft Dia.(d)
Tube	וט	Ф12 (b/h=10/11)
	Ф38х1.2	1.100.SDC.ACB
Steel, zinc plated	Ф50x1.5	1.100.JHA.ACB
	Ф60х2.0	1.100.JOA.ACB
	Ф38х1.2	1.100.NDC.BCB
Stainless steel	Ф50x1.5	1.100.NHC.BCB
	Ф60х2.0	1.100.NOC.BCB
Aluminium	Ф50x1.5	1.100.AHC.ACB
Aluminum	Ф60х2.0	1.100.AOC.ACB



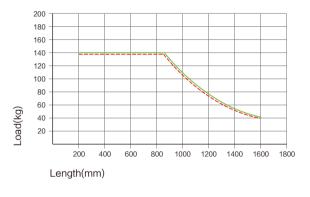
1100 Series Load Capacity



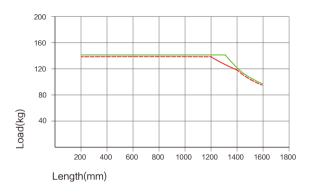
- Tube Φ25.6x1.0, shaft Φ8, spring loaded
- Tube Φ25.6x1.0, shaft Φ6, spring loaded



- Tube Φ38x1.2, shaft Φ12, spring loaded
- Tube Φ38x1.2, shaft Φ12, internal thread



- Tube Φ50x1.5, shaft Φ12, spring loaded
- Tube Φ50x1.5, shaft Φ12, internal thread



- Tube Φ60x2.0, shaft Φ12, internal thread
- Tube Φ60x2.0, shaft Φ12, spring loaded

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





1200 Series

Universal Conveyor Roller

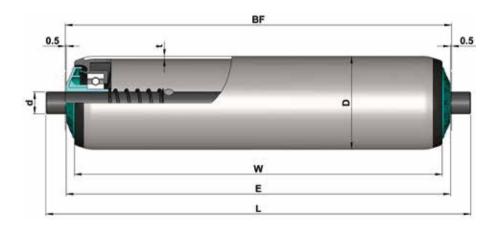
Products Features

- 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 120m/min.
- Anti-static configuration available.
- Temperature range: -5°C ~ + 40°C.

Specifications

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





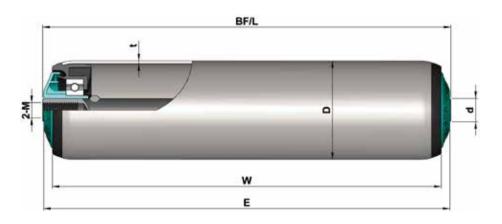
1200 Series Spring Loaded

Tube Dia.(D)	Shaft Dia.(d)			
Ф38	Ф8/10/12/11hex	BF=W+10	E=W+9	L=W+31
Ф48	Ф10/12/11hex	BF=W+10	E=W+9	L=W+31
Ф50	Ф8/10/12/11hex	BF=W+10	E=W+9	L=W+31
Ф60	Ф10/12/11hex	BF=W+10	E=W+9	L=W+31

Tube	D*T		Shaft Dia.(d)			
Tube	וטו	Ф8	Ф10	11hex	Ф12	
	Ф38х1.2	1.200.SDC.ABA	1.200.SDC.AMA	0	1.200.SDC.ACA	
	Ф48.6х1.5		0	1.200.JGA.AFA	0	
Steel, zinc plated	Ф50x1.5	0	1.200.JHA.AMA	1.200.JHA.AFA	1.200.JHA.ACA	
Steel, zinc plated	Ф50x2.0		0	1.200.JWA.AFA	1.200.JWA.ACA	
	Ф60х2.0		0	1.200.JOA.AFA	1.200.JOA.ACA	
	Ф80х3.0					
Steel, zinc plated, with	Ф50x1.5	0	1.200.HHD.AMA	1.200.HHD.AFA	1.200.HHD.ACA	
PVC sleeve (2mm)	Ф50x2.0		0	0	0	
	Ф38х1.2	1.200.NDC.BBA	1.200.NDC.BMA	0	1.200.NDC.BCA	
Stainless steel	Ф48.6х1.5		0	1.200.NGC.BFA	0	
Stall liess steel	Ф50x1.5	0	1.200.NHC.BMA	1.200.NHC.BFA	1.200.NHC.BCA	
	Ф60х2.0		0	1.200.NOC.BFA	1.200.NOC.BCA	
Aluminium	Ф50x1.5	0	1.200.AHC.AMA	1.200.AHC.AFA	1.200.AHC.ACA	
Aluminium	Ф60х2.0		0	1.200.AOC.AFA	1.200.AOC.ACA	
PVC	Ф50х2.5	0	1.200.P8C.BMA	0	1.200.P8C.BCA	

O——Available configuration





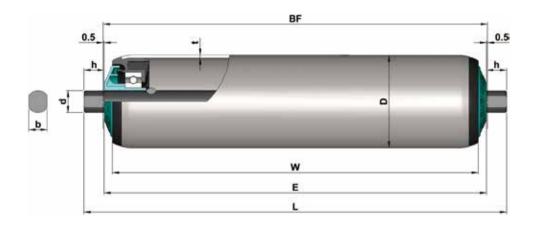
1200 Series Internal Thread

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

Tube	D*T	Shaft Dia.(d)				
Tube	וטו	Ф12 (M8x15)	Ф15 (M10x20)	Ф17 (M12x25)	Ф20 (M12x25)	
	Ф38х1.2	1.200.SDC.ACC				
	Ф48.6х1.5	1.200.JGA.ACC	0			
	Ф50x1.5	1.200.JHA.ACC	1.200.JHA.ADC	1.200.JHA.AGC		
Steel, zinc plated	Ф50x2.0	1.200.JWA.ACC	1.200.JWA.ADC			
	Ф60x2.0	1.200.JOA.ACC	1.200.JOA.ADC			
	Ф60х3.0			1.200.JLA.AGC		
	Ф80х3.0				1.200.J6A.AEC	
Steel, zinc plated, with	Ф50х1.5	1.200.HHD.ACC	1.200.HHD.ADC			
PVC sleeve (2mm)	Ф50x2.0	0	0			
	Ф38х1.2	1.200.NDC.BCC				
Stainless steel	Ф48.6x1.5	1.200.NGC.BCC	0			
Stall liess steel	Ф50x1.5	1.200.NHC.BCC	1.200.NHC.BDC			
	Ф60х2.0	1.200.NOC.BCC	1.200.NOC.BDC			
Aluminium	Ф50x1.5	1.200.AHC.ACC	1.200.AHC.ADC			
	Ф60х2.0	1.200.AOC.ACC	0			
PVC	Ф50х2.5	1.200.P8C.BCC	1.200.P8C.BDC			

○——Available configuration





1200 Series Milled Flats

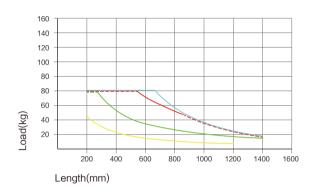
Tube Dia.(D)	Shaft Dia.(d)			
Ф38	Ф12	BF=W+10	E=W+9	L=W+31
Ф48	Ф12/15	BF=W+10	E=W+9	L=W+31
Ф50	Ф12/15/17	BF=W+10	E=W+9	L=W+31
Ф60	Ф12/15/17	BF=W+10	E=W+9	L=W+31
Ф80	Ф20	BF=W+12	E=W+11	L=W+41

Tube	D*T		Shaft Dia.(d)		
Tube	וט	Φ12 (b/h=10/11)	Ф15 (b/h=12/11)	Ф17(b/h=15/11)	Ф20 (b/h=16/15)
	Ф38х1.2	1.200.SDC.ACB			
	Ф48.6х1.5	0	0		
	Ф50х1.5	1.200.JHA.ACB	1.200.JHA.ADB	1.200.JHA.AGB	
Steel, zinc plated	Ф50х2.0	1.200.JWA.ACB	1.200.JWA.ADB		
	Ф60х2.0	1.200.JOA.ACB	1.200.JOA.ADB		
	Ф60х3.0			1.200.JLA.AGB	
	Ф80х3.0				1.200.J6A.AEB
Steel, zinc plated, with	Ф50x1.5	1.200.HHD.ACB	1.200.HHD.ADB		
PVC sleeve (2mm)	Ф50х2.0	0	0		
	Ф38х1.2	1.200.NDC.BCB			
Stainless steel	Ф50х1.5	1.200.NHC.BCB	1.200.NHC.BDB		
	Ф60х2.0	1.200.NOC.BCB	1.200.NOC.BDB		
Aluminium	Ф50х1.5	1.200.AHC.ACB	1.200.AHC.ADB		
Aluminium	Ф60х2.0	1.200.AOC.ACB	0		
PVC	Ф50x2.5	1.200.P8C.BCB	1.200.P8C.BDB		

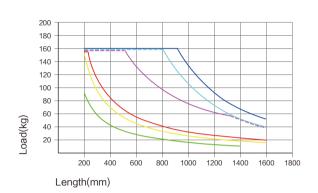
O——Available configuration



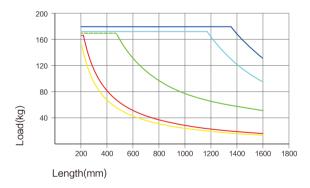
1200 Series Load Capacity



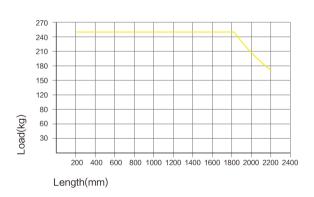
- Tube Φ38x1.2, shaft Φ12, internal thread
- Tube Φ38x1.2, shaft Φ12, spring loaded
- Tube Φ38x1.2, shaft Φ10, spring loaded
- Tube Φ38x1.2, shaft Φ8, spring loaded



- Tube Φ50x2.0, shaft Φ12/15, internal thread
- Tube Φ50x1.5, shaft Φ12/15, internal thread
- Tube Ф50x1.5, shaft Ф15, milled flats
- Tube Ф50x1.5, shaft Ф12, spring loaded
- Tube Φ50x1.5, shaft11hex, spring loaded
- Tube Φ50x1.5, shaft Φ10, spring loaded



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



Tube Φ80x3.0, shaft Φ20, internal thread

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





1800 Series

Gravity Conveyor Roller

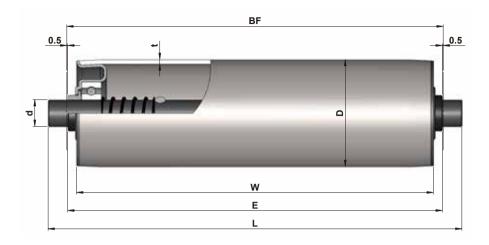
Product Features

- 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.
- Temperature range: -20°C ~ +80°C.

Specifications

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





1800 Series Spring Loaded

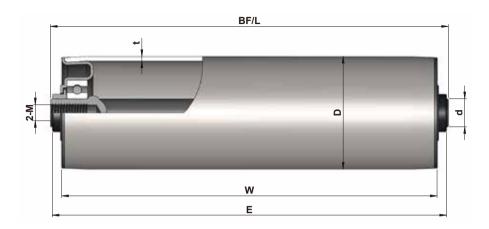
Tub - Dia (D)	Cl# D:- (-1)			
Tube Dia.(D)	Snatt Dia.(d)			
Ф38	Ф12	BF=W+10	E=W+9	L=W+31
Ф50	Ф12	BF=W+9	E=W+8	L=W+30
Ф50	Ф15	BF=W+11	E=W+10	L=W+32
Ф60	Ф12/15	BF=W+11	E=W+10	L=W+32
Ф76	Ф15	BF=W+10	E=W+9	L=W+31
Ф76	Ф20	BF=W+11	E=W+10	L=W+40
Ф80	Ф20	BF=W+11	E=W+10	L=W+40
Ф89	Ф20	BF=W+11	F=W+10	I =W+40

Tube	D*T		Shaft Dia.(d)		
Tube		Ф12	Ф15	Ф20	
	Ф38х1.2	1.800.SDC.ACA			
	Ф50х1.5	1.800.JHA.ACA	1.800.JHA.ADA		
	Ф50x2.0	1.800.JWA.ACA	0		
	Ф60х2.0	1.800.JOA.ACA	1.800.JOA.ADA		
	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			0	
	Ф38х1.2	1.800.NDC.BCA			
Stainless steel	Ф50x1.5	1.800.NHC.BCA	1.800.NHC.BDA		
Otali liess steel	Ф60х2.0	1.800.NOC.BCA	1.800.NOC.BDA		
	Ф76х3.0		0	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		
	Ф76х3.0		1.800.ASC.ADA	1.800.ASC.AEA	
	Ф80х4.0			0	

O——Available configuration

Ф50、60mm rollers can be fitted with PVC sleeve (2mm).





1800 Series Internal Thread

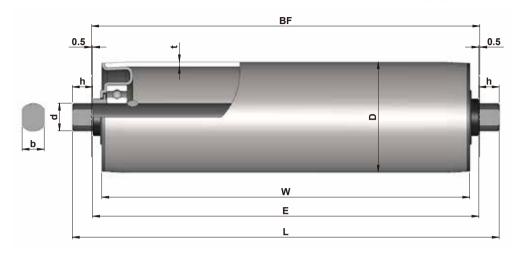
Tube Dia.(D)	Shaft Dia.(d)			
Ф38	Ф12	BF=W+10	E=W+9	L=W+10
Ф50	Ф12	BF=W+9	E=W+8	L=W+9
Ф50	Ф15	BF=W+11	E=W+10	L=W+11
Ф60	Ф12/15	BF=W+11	E=W+10	L=W+11
Ф76	Ф15	BF=W+10	E=W+9	L=W+10
Ф76	Ф20	BF=W+11	E=W+10	L=VV+11
Ф80	Ф20	BF=W+11	E=W+10	L=W+11
Ф89	Ф20	BF=W+11	E=W+10	L=W+11

Tube	D*T	Shaft Dia.(d)			
Tube		Ф12 (M8x15)	Ф15 (M10x20)	Ф20 (M12x25)	
	Ф38х1.2	1.800.SDC.ACC			
	Ф50x1.5	1.800.JHA.ACC	1.800.JHA.ADC		
	Ф50x2.0	1.800.JWA.ACC	0		
	Ф60х2.0	1.800.JOA.ACC	1.800.JOA.ADC	0	
	Ф60х3.0		1.800.JLA.ADC		
Steel, zinc plated	Ф76х3.0		1.800.JSA.ADC	1.800.JSA.AEC	
	Ф76х4.0			1.800.JRB.AEC	
	Ф80х2.0			0	
	Ф80х3.0			1.800.J6A.AEC	
	Ф89х3.0			1.800.JYA.AEC	
	Ф89х4.0			0	
	Ф38х1.2	1.800.NDC.BCC			
Stainless steel	Ф50x1.5	1.800.NHC.BCC	1.800.NHC.BDC		
Stall liess steel	Ф60х2.0	1.800.NOC.BCC	1.800.NOC.BDC	0	
	Ф76х3.0		0	1.800.NSC.BEC	
	Ф38.2х1.5	1.800.AFC.ACC			
	Ф50x1.5	1.800.AHC.ACC	0		
Aluminium	Ф60х2.0	1.800.AOC.ACC	1.800.AOC.ADC	0	
	Ф76х3.0		1.800.ASC.ADC	1.800.ASC.AEC	
	Ф80х4.0			0	

^{○——}Available configuration

Ф50 € 60mm rollers can be fitted with PVC sleeve (2mm).





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	BF=W+11	E=W+10	L=W+40

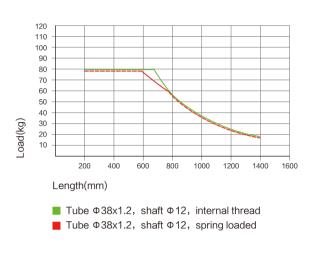
Tube	D*T	Shaft Dia.(d)			
Tube		Ф12 (b/h=10/11)	Ф15 (b/h=12/11)	Ф20 (b/h=16/15)	
	Ф38х1.2	1.800.SDC.ACB			
	Ф50х1.5	1.800.JHA.ACB	1.800.JHA.ADB		
	Ф50x2.0	1.800.JWA.ACB	0		
	Ф60х2.0	1.800.JOA.ACB	1.800.JOA.ADB	0	
	Ф60х3.0		1.800.JLA.ADB		
Steel, Zinc-plated	Ф76х3.0		1.800.JSA.ADB	1.800.JSA.AEB	
	Ф76х4.0			1.800.JRB.AEB	
	Ф80х3.0			1.800.J6A.AEB	
	Ф89х3.0			1.800.JYA.AEB	
	Ф89х4.0			0	
	Ф38х1.2				
Stainless steel	Ф50x1.5	1.800.NDC.BCB	1.800.NHC.BDB		
Otali liess steel	Ф60х2.0	1.800.NHC.BCB	1.800.NOC.BDB	0	
	Ф76х3.0	1.800.NOC.BCB	0	1.800.NSC.BEB	
	Ф38.2х1.5				
	Ф50х1.5	1.800.AFC.ACB	0		
Aluminium	Ф60х2.0	1.800.AHC.ACB	1.800.AOC.ADB	0	
	Ф76х3.0	1.800.AOC.ACB	1.800.ASC.ADB	1.800.ASC.AEB	
	Ф80х4.0			0	

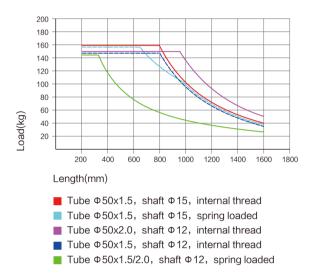
O——Available configuration

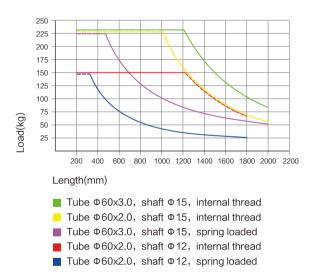
Φ50 、60mm rollers can be fitted with PVC sleeve (2mm).



1800 Series Load Capacity



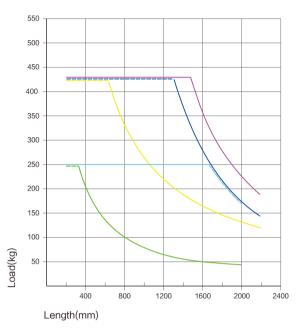




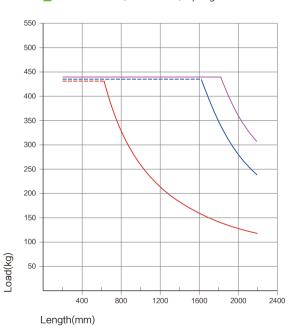
⚠ Above data shows the static load capacity of the roller for a uniformly distributed load.



1800 Series Load Capacity



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



- Tube Φ89x4.0, shaft Φ20, internal thread
- Tube Φ89x3.0, shaft Φ20, internal thread
- Tube Φ89x3.0/4.0, shaft Φ20, spring loaded

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

550 500 450 400 350 300 250 200 150 100 Load(kg) 50 1200 1600 Length(mm) ■ Tube Φ80x3.0, shaft Φ20, internal thread ■ Tube Φ80x3.0, shaft Φ20, spring loaded



DRIVEN CONVEYING

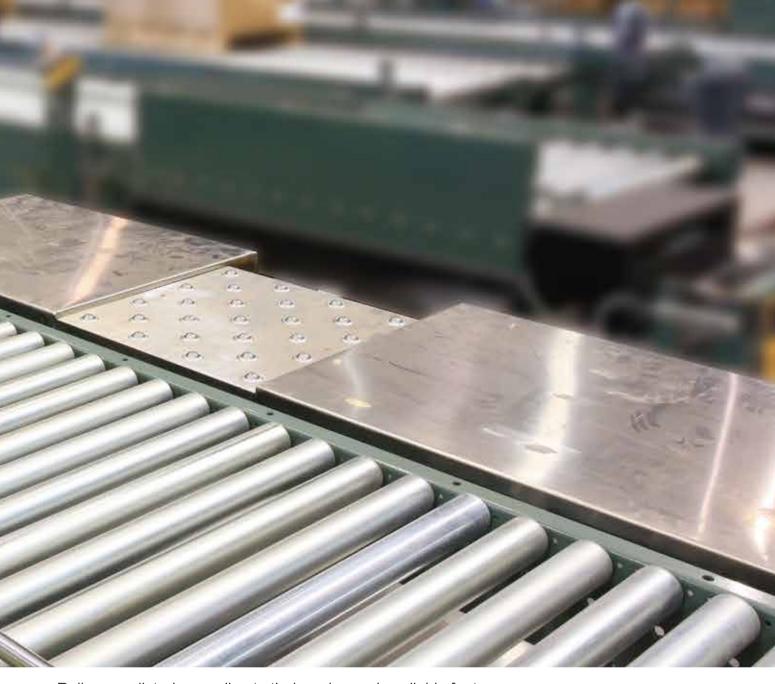
Driven conveying transports goods steadily, reliably and with accurate speed. According to the driving method, it may be classified as "belt driven conveying" or "chian driven conveying".

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.

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		36-41
O-belt pulley, light/medium duty conveying, reliable.	2260	Ф50		42-45
Poly-vee pulley, medium duty conveying, high speed, low noise.	2250	Ф48/50		46-49
Polymer synchronous pulley, with slip synchronous in conveying, medium load conveying, high speed, low noise.	2280	Ф50		50-51
Polymer sprocket, polyamide bearing housing, medium duty conveying, low noise	2214/2224	Ф50/60		52-55
Steel sprocket, polymer bearing housing, medium/heavy duty conveying, attractive look.	2411/2421	Ф50/60/80		56-59
Steel sprocket, steel bearing housing, heavy duty conveying, strong and durable, suitable for many working environments.	2311/2321	Ф50/60/76/80/89		60-64



2230/2240 Series Driven Conveyor Roller



2230/2240 Series

Single/Double Grooved Conveyor Roller

Products 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.
- Anti-static design.
- Temperature range: -5°C ~ +40°C.

Specifications

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

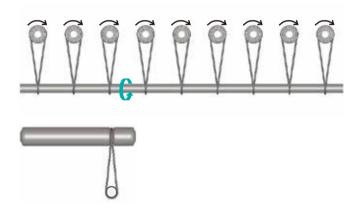


Conveying Load

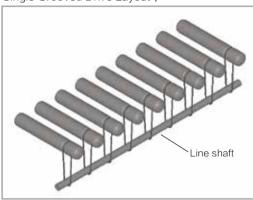
- 1. Conveying load refers to the max load of the roller to be drived.
- 2. Conveying load is the key point in dynamic convey.
- 3. The load capacity of the rollers depend on the drive method and drive capacity of the O-belt. single goods shaoul not over 30 kg.

Single Grooved Drive

- 1. The driving force for each roller is transmitted separately from the line shaft. It has a higher load 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.







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.

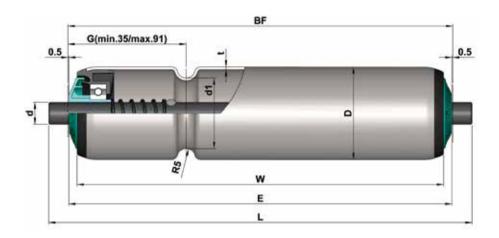
Double Grooved Drive Layout:







2230/2240 Series Driven Conveyor Roller



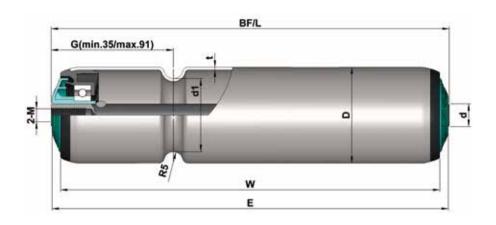
2230 Series Spring Loaded

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

Tube	D*T		Shaf	t Dia.(d)	
Tube	וט	Ф8	Ф10	11hex	Ф12
	Ф48.6х1.5		0	2.230.JGA.AFA	0
Steel, zinc plated	Ф50x1.5	0	2.230.JHA.AMA	2.230.JHA.AFA	2.230.JHA.ACA
	Ф60x2.0		0	2.230.JOA.AFA	2.230.JOA.ACA
Steel, zinc plated with PVC sleeve (2mm)	Ф50x1.5	0	2.230.JHD.AMA	2.230.JHD.AFA	2.230.JHD.ACA
	Ф48.6х1.5		0	2.230.NGC.BFA	0
Stainless steel	Ф50x1.5	0	2.230.NHC.BMA	2.230.NHC.BFA	2.230.NHC.BCA
	Ф60х2.0		0	2.230.NOC.BFA	2.230.NOC.BCA

O——Available configuration





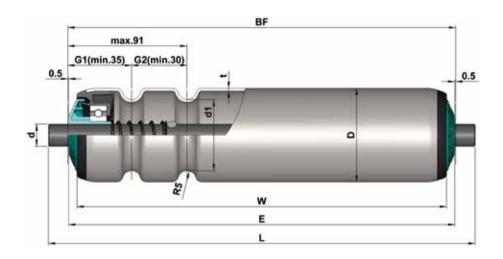
Tube Dia.(D)	Shaft Dia.(d)				G	d1
Ф48	Ф12/15	BF=W+10	E=W+9	L=W+10	65	Ф37.5
Ф50	Ф12/15	BF=W+10	E=W+9	L=W+10	65	Ф38.5
Ф60	Ф12/15	BF=W+10	E=W+9	L=W+10	65	Ф48.0

Tube	D*T	Shaft Dia.(d)		
Tube	וט	Ф12 (M8x15)	Ф15 (M10x20)	
	Ф48.6х1.5	2.230.JGA.ACC	0	
Steel, zinc plated	Ф50x1.5	2.230.JHA.ACC	2.230.JHA.ADC	
	Ф60х2.0	2.230.JOA.ACC	2.230.JOA.ADC	
Steel, zinc plated with PVC sleeve (2mm)	Ф50x1.5	2.230.JHD.ACC	2.230.JHD.ADC	
	Ф48.6x1.5	2.230.NGC.BCC	0	
Stainless steel	Ф50x1.5	2.230.NHC.BCC	2.230.NHC.BDC	
	Ф60х2.0	2.230.NOC.BCC	2.230.NOC.BDC	

○——Available configuration



2230/2240 Series Driven Conveyor Roller



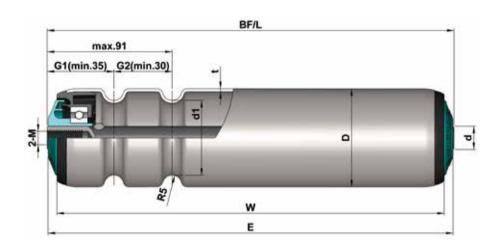
2240 Series Spring Loaded

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
Ф50	Ф8/10/12/11hex	BF=W+10	E=W+9	L=W+31	35	30	Ф38.5
Ф60	Ф10/12/11hex	BF=W+10	E=W+9	L=W+31	35	30	Ф48.0

Tube	D*T		Shaf	t Dia.(d)	
Tube	וט	Ф8	Ф10	11hex	Ф12
	Ф48.6х1.5		0	2.240.JGA.AFA	0
Steel, zinc plated	Ф50x1.5	0	2.240.JHA.AMA	2.240.JHA.AFA	2.240.JHA.ACA
	Ф60х2.0		0	2.240.JOA.AFA	2.240.JOA.ACA
Steel, zinc plated with PVC sleeve (2mm)	Ф50x1.5	0	2.240.JHD.AMA	2.240.JHD.AFA	2.240.JHD.ACA
	Ф48.6х1.5		0	2.240.NGC.BFA	0
Stainless steel	Ф50x1.5	0	2.240.NHC.BMA	2.240.NHC.BFA	2.240.NHC.BCA
	Ф60х2.0		0	2.240.NOC.BFA	2.240.NOC.BCA

O——Available configuration





Tube Dia.(D)	Shaft Dia.(d)				G1	G2	d1
Ф48	Ф12/15	BF=W+10	E=W+9	L=W+10	35	30	Ф37.5
Ф50	Ф12/15	BF=W+10	E=W+9	L=W+10	35	30	Ф38.5
Ф60	Ф12/15	BF=W+10	E=W+9	L=W+10	35	30	Ф48.0

Tube	D*T		Shaft Dia.(d)	
Tube	וט	Ф12 (M8x15)	Ф15 (M10x20)	
	Ф48.6х1.5	2.240.JGA.ACC	0	
Steel, zinc plated	Ф50x1.5	2.240.JHA.ACC	2.240.JHA.ADC	
	Ф60х2.0	2.240.JOA.ACC	2.240.JOA.ADC	
Steel, zinc plated with PVC sleeve (2mm)	Ф50x1.5	2.240.JHD.ACC	2.240.JHD.ADC	
	Ф48.6х1.5	2.240.NGC.BCC	0	
Stainless steel	Ф50x1.5	2.240.NHC.BCC	2.240.NHC.BDC	
	Ф60х2.0	2.240.NOC.BCC	2.240.NOC.BDC	

○——Available configuration



2260 Series Driven Conveyor Roller



2260 Series

O-Belt Pulley Roller

Products 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.
- Temperature range: -5°C ~ +40°C.

Specifications

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

Drive Element	
O-belt pulley	Polyamide, black



Conveying Load

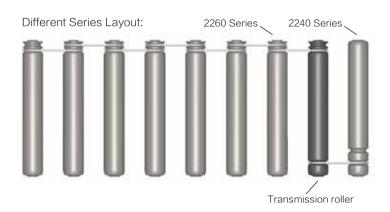
- 1. Conveying load refers to the maximum load capacity of the roller to be driven.
- 2. Conveying load is the key factor in dynamic conveying.
- 3. The load capacity of the rollers depend on the drive method and drive capacity of the O-belt. Single items should not exceed 30kg.

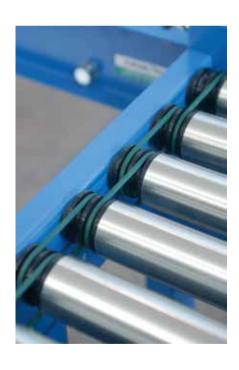
Double Groove Pulley Drive

- 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.

Double Groove Pulley Drive Layout:

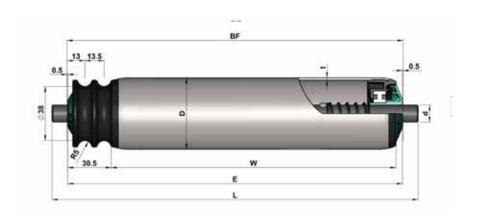








2260 Series Driven Conveyor Roller



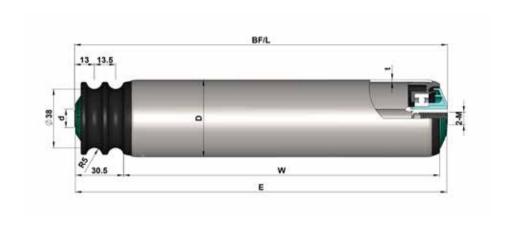
2260 Series Spring Loaded

Tube Dia.(D)	Shaft Dia.(d)			
Ф50	Ф10/12/11hex	BF=W+36	E=W+35	L=W+57

Tube	D*T	Shaft Dia.(d)		
Tube	<i>D</i> 1	Ф10	11hex	Ф12
Steel, zinc plated	Ф50x1.5	0	2.260.JHA.AFA	2.260.JHA.ACA
Steel, zinc plated with PVC sleeve (2mm)	Ф50x1.5	0	2.260.HHD.AFA	2.260.HHD.ACA
Stainless steel	Ф50x1.5	0	2.260.NHC.BFA	2.260.NHC.BCA
Aluminium	Ф50х1.5	0	0	0

O——Available configuration





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

Tube	D*T	Shaft Dia.(d)		
Tube	Di	Ф12 (M8x15)	Ф15 (M10x20)	
Steel, zinc plated	Ф50x1.5	2.260.JHA.ACC	2.260.JHA.ADC	
Steel, zinc plated with PVC sleeve (2mm)	Ф50x1.5	2.260.HHD.ACC	2.260.HHD.ADC	
Stainless steel	Ф50x1.5	2.260.NHC.BCC	2.260.NHC.BDC	
Aluminium	Ф50x1.5	0	0	

○——Available configuration



2250 Series Driven Conveyor Roller



2250 Series

Poly-Vee Roller

Products 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.
- ISO9982 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 120m/min.
- Temperature range: -5°C ~ +40°C.

Specifications

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

Drive Element	
Poly-vee wheel	Polyamide,black

Poly-vee drive belts are available.



Conveying Load

- 1. Conveying load refers to the maximum load capacity of the roller to be driven.
- 2. Conveying load is the key factor in dynamic conveying.
- 3. The load capacity of the roller is based on the drive method and the type of Poly-vee belt. The load rating is high when fewer rollers are driven or selecting the 3 or 4 groove Poly-vee belt.
- 4. The load capacity for each unit can be as high as 100kg when the 3 groove poly-vee belt is used.

Roller Pitch

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

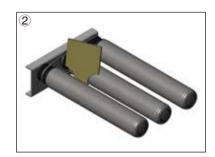
Dallan nitab (man)	Types of poly-vee drive belt			
Roller pitch(mm)	2 grooves	3 grooves		
60~63	2PJ256	3PJ256		
73~75	2PJ286	3PJ286		
76~78	2PJ290	3PJ290		
87~91	2PJ314	3PJ314		
97~101	2PJ336	3PJ336		
103~107	2PJ346	3PJ346		
119~121	2PJ376	3PJ376		
129~134	2PJ416	3PJ416		
142~147	2PJ435	3PJ435		
157~161	2PJ456	3PJ456		

Roller Installation

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



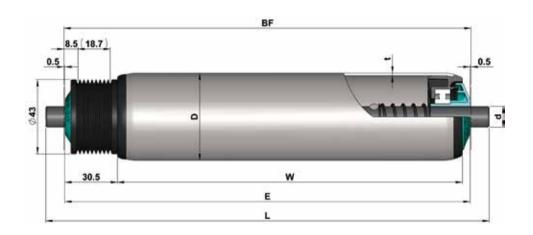








2250 Series Driven Conveyor Roller



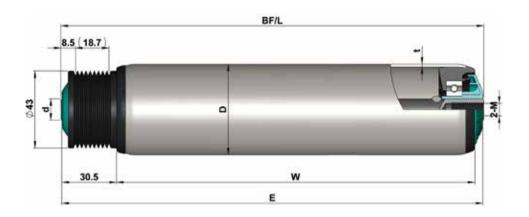
2250 Series Spring Loaded

Tube Dia.(D)	Shaft Dia.(d)			
Ф48	Ф10/12/11hex	BF=W+36	E=W+35	L=W+57
Ф50	Ф10/12/11hex	BF=W+36	E=W+35	L=W+57

Tube	D*T	Shaft Dia.(d)		
Tube		Ф10	11hex	Ф12
Steel, zinc plated	Ф48.6х1.5	0	2.250.JGA.AFA	0
Steel, Zinc plated	Ф50x1.5	0	2.250.JHA.AFA	2.250.JHA.ACA
Steel, zinc plated with PVC sleeve (2mm)	Ф50x1.5	0	2.250.HHD.AFA	2.250.HHD.ACA
Stainless steel	Ф48.6х1.5	0	0	0
	Ф50x1.5	0	2.250.NHC.BFA	2.250.NHC.BCA
Aluminium	Ф50x1.5		0	0

O——Available configuration





Tube Dia.(D)	Shaft Dia.(d)			
Ф48	Ф12/15	BF=W+36	E=W+35	L=W+36
Ф50	Ф12/15	BF=W+36	E=W+35	L=W+36

Tube	D*T	Shaft Dia.(d)		
Tube		Ф12 (M8x15)	Ф15 (M10x20)	
Steel, zinc plated	Ф48.6x1.5	2.250.JGA.ACC	0	
Steel, zinc plated	Ф50x1.5	2.250.JHA.ACC	2.250.JHA.ADC	
Steel, zinc plated with PVC sleeve (2mm)	Ф50x1.5	2.250.HHD.ACC	2.250.HHD.ADC	
Ctainless stand	Ф48.6x1.5	0	0	
Stainless steel	Ф50x1.5	2.250.NHC.BCC	2.250.NHC.BDC	
Aluminium	Ф50x1.5	0	0	

O——Available configuration



2280 Series Driven Conveyor Roller



2280 Series

Timing Belt Pulley Conveyor Roller

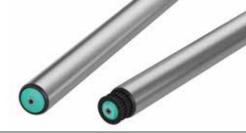
Products Features

- The polymer synchronous 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.
- It has greater conveying capacity, which is suitable for medium load conveying.
- It has compact structure and simple design without tensioning.
- It is more efficient without slip synchronous in conveying.
- The T5 tooth shape design is suitable for the roller conveyer 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 synchronous 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 120m/min
- Temperature: -5℃~+40℃

Specifications

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

Drive Element	
synchronous pulley	Polyamide, black



About Duty

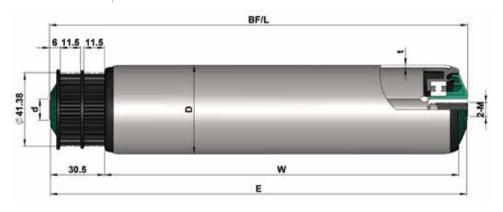
- 1. Duty is the maximum loading of driven roller (it's not roller's maximum weight capacity);
- 2.In driven conveying, duty plays a decisive role.
- 3. The duty capacity of the roller depends on the conveying arrangement and the mode of the synchronous belt. In general, the duty capacity of the single zone is more than 100kg.

Roller Pitch

The center distance of the synchronous belt arrangement is strictly limited (recommended tolerance: +0.5/0mm). The common pitch and the synchronized belt mode with it are shown in the following table:

synchronous belt wide: 10mm

Center distance(mm)	Synchronous belt mode	Synchronous belt teeth number
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-T5-430	86
160	10-T5-450	90



2280 Series Internal Thread

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

Tube	D*T	Shaft Dia. (d)		
Tube	וטו	Ф12 (M8x15)	Ф15 (M10x20)	
Steel, zinc plated	Ф50x1.5	2.280.JHA.ACC	2.280.JHA.ADC	
Steel, zinc plated with PVC sleeve (2mm)	Ф50x1.5	2.280.HHD.ACC	2.280.HHD.ADC	
Stainless steel	Ф50x1.5	2.280.NHC.BCC	2.280.NHC.BDC	
Aluminium	Ф50x1.5	0	0	

O——Available configuration

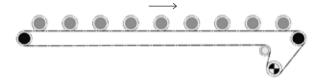


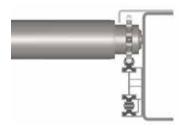
2214/2224 Series Driven Conveyor Roller

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 load of the single roller, you should also consider the ultimate tension of the chain under conveyor full load 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:

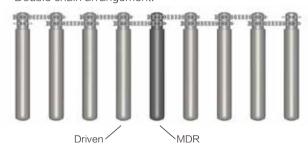




Double Chain Sprocket Drive

- 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.

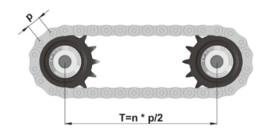
Double chain arrangement:



- 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

Туре	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

Polymer Single/Double Sprocket Roller

Products 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.
- Temperature range: -5°C ~ +40°C.

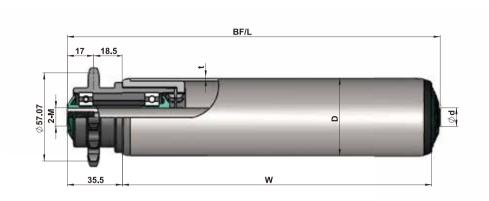
Specifications

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

Drive Element	
Sprocket	Polyamide,black



2214/2224 Series Driven Conveyor Roller



2214 Series Internal Thread

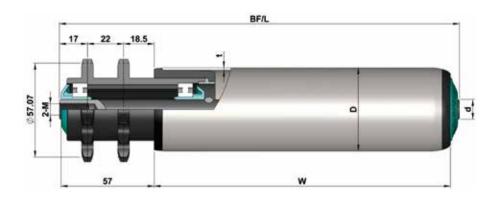
Tube Dia.(D)	Shaft Dia.(d)		Spocket style
Ф50	Ф12/15	BF/L=W+41	08B14T
Ф60	Ф12/15	BF/L=W+41	08B14T

Tube	D*T		Shaft Dia.(d)
Tube		Ф12 (M8x15)	Ф15 (M10x20)
Steel, zinc plated	Ф50х1.5	2.214.JHA.ACC	2.214.JHA.ADC
Steet, zinc plated	Ф60х2.0	0	0
Stainless steel	Ф50х1.5	2.214.NHC.BCC	2.214.NHC.BDC
Stairliess steel	Ф60х2.0	0	0
Aluminium	Ф50х1.5	2.214.AHC.ACC	2.214.AHC.ADC
Aluminium	Ф60х2.0	0	0
PVC	Ф50х2.5	2.214.P8C.BCC	2.214.P8C.BDC

O——Available configuration

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





Tube Dia.(D)	Shaft Dia.(d)		Spocket style
Ф50	Ф12/15	BF/L=W+63	08B14T
Ф60	Ф12/15	BF/L=W+63	08B14T

Tube	D*T		Shaft Dia.(d)	
rube		Ф12 (M8x15)	Ф15 (M10x20)	
Steel, zinc plated	Ф50x1.5	2.224.JHA.ACC	2.224.JHA.ADC	
Steel, Zinc plated	Ф60х2.0	2.224.JOA.ACC	2.224.JOA.ADC	
Stainless steel	Ф50x1.5	2.224.NHC.BCC	2.224.NHC.BDC	
Stainless steel	Ф60х2.0	2.224.NOC.BCC	2.224.NOC.BDC	
Aluminium	Ф50x1.5	2.224.AHC.ACC	2.224.AHC.ADC	
Aluminium	Ф60х2.0	0	0	
PVC	Ф50x2.5	2.224.P8C.BCC	2.224.P8C.BDC	

O——Available configuration

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



2411/2421 Series Driven Conveyor Roller



2411/2421 Series

Steel Single/Double Sprocket Roller

Products 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.

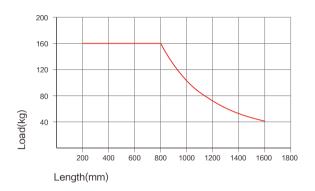
Specifications

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

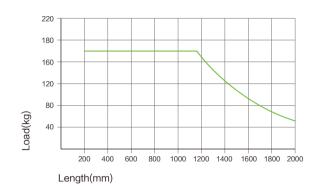
Drive Element	
Sprocket	Steel



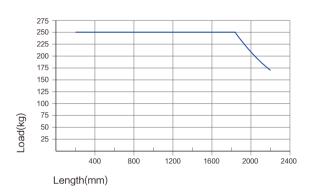
2411/2421 Series Load Capacity



■ Tube Ф50x1.5, shaft Ф12/15, internal thread



■ Tube Φ60x2.0, shaft Φ12/15, internal thread



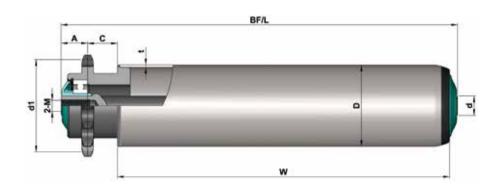
■ Tube Φ80x3.0, shaft Φ20, internal thread

⚠ 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.



2411/2421 Series Driven Conveyor Roller



2411 Series Internal Thread

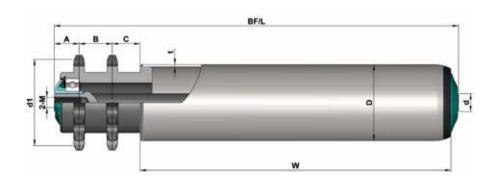
Tube Dia.(D)	Shaft Dia.(d)		Spocket style	Α	С	d1
Ф50	Ф12/15	BF/L=W+41	08B14T	17	18.5	Ф57.07
Ф60	Ф12/15	BF/L=W+41	08B14T	17	18.5	Ф57.07
Ф80	Ф20	BF/L=W+37	10B15T	18	13	Ф76.35

Tube	D*T		Shaft Dia.(d)			
Tube	וט	Ф12 (M8x15)	Ф15 (M10x20)	Ф20 (M12x25)		
Steel, zinc plated	Ф50x1.5	2.411.JHA.ACC	2.411.JHA.ADC			
	Ф50x2.0	0	0			
	Ф60х2.0	2.411.JOA.ACC	2.411.JOA.ADC			
	Ф80х3.0			2.411.J6A.AEC		
Steel, zinc plated with steel flange	Ф80х3.0			2.411.J6G.AEC		
Stainless steel	Ф50x1.5	2.411.NHC.BCC	2.411.NHC.BDC			
Stairliess steel	Ф60х2.0	2.411.NOC.BCC	2.411.NOC.BDC			

O——Available configuration

Ф50 € 60mm rollers can be fitted with PVC sleeve (2mm).





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
Ф80	Ф20	BF/L=W+63	10B15T	18	26	13	Ф76.35

Tube	D*T)	
Tube	וט	Ф12 (M8x15)	Ф15 (M10x20)	Ф20 (M12x25)
Steel, zinc plated	Ф50х1.5	2.421.JHA.ACC	2.421.JHA.ADC	
	Ф50x2.0	0	0	
	Ф60х2.0	2.421.JOA.ACC	2.421.JOA.ADC	
	Ф80х3.0			2.421.J6A.AEC
Steel, zinc plated with steel flange	Ф80х3.0			2.421.J6G.AEC
Stainless steel	Ф50х1.5	2.421.NHC.BCC	2.421.NHC.BDC	
	Ф60х2.0	2.421.NOC.BCC	2.421.NOC.BDC	

O——Available configuration

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



2311/2321 Series Driven Conveyor Roller



2311/2321 Series

Steel Single/Double Sprocket Roller

Products 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.
- The covering on the outside of the sprocket protects the bearings by providing excellent resistance to dust and splashed water.
- Temperature range: -20°C ~ +80°C.

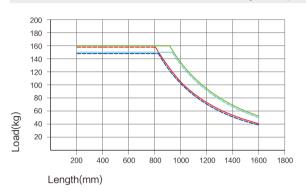
Paraments

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

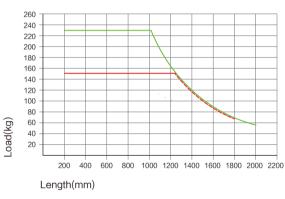
Driving element	
Sprocket	Steel



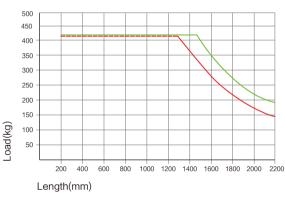
2311/2321 Series Load Capacity



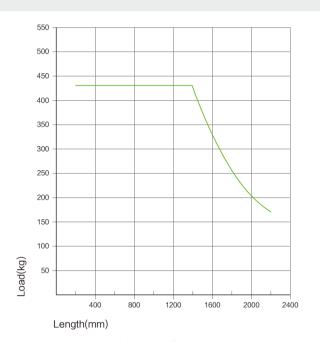
- Tube Φ50x2.0, shaft Φ15, internal thread
- Tube Φ50x1.5, shaft Φ15, internal thread
- Tube Φ50x2.0, shaft Φ12, internal thread
- Tube Φ 50x1.5, shaft Φ 12, internal thread



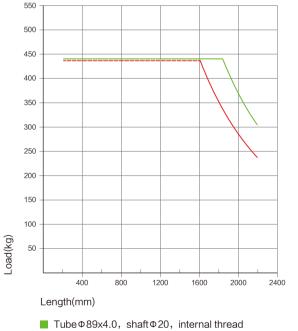
- Tube Φ60x2.0, shaft Φ15, internal thread
- Tube Φ 60x2.0, shaft Φ 12, internal thread



- Tube Φ76x4.0, shaft Φ20, internal thread
- Tube Φ76x3.0, shaft Φ20, internal thread



■ Tube Φ80x3.0, shaft Φ20, internal thread



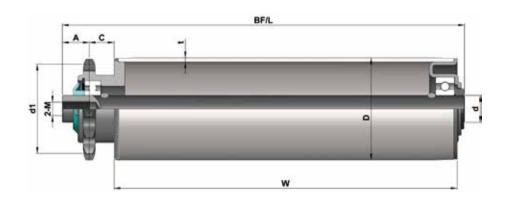
- Tube Ф89x3.0, shaft Ф20, internal thread

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.



2311/2321 Series Driven Conveyor Roller



2311 Series Internal Thread

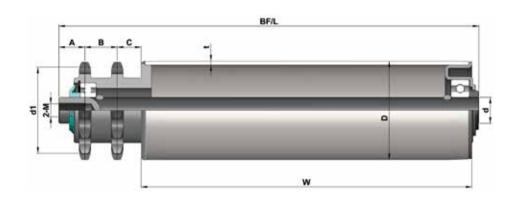
Tube Dia.(D)	Shaft Dia.(d)		Spocket style	Α	С	d1
Ф50	Ф12	BF/L=W+40	08B11T	17	18.5	Ф45.08
Ф50	Ф15	BF/L=W+41	08B14T	17	18.5	Ф57.07
Ф60	Ф12/15	BF/L=W+41	08B14T	17	18.5	Ф57.07
Ф76	Ф15	BF/L=W+41	08B14T	17	18.5	Ф57.07
Ф76	Ф20	BF/L=W+44	10A13T	20	18.5	Ф66.33
Ф80	Ф20	BF/L=W+44	10B15T	20	18.5	Ф76.35
Ф89	Ф20	BF/L=W+44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

Tube	D*T	Shaft Dia.(d)			
rube	ויט	Ф12 (M8x15)	Ф15 (M10x20)	Ф20 (M12x25)	
	Ф50x1.5	2.311.JHA.ACC	0		
	Ф50x2.0	2.311.JWA.ACC	0		
	Ф60х2.0	2.311.JOA.ACC	2.311.JOA.ADC		
	Ф60х3.0		2.311.JLA.ADC		
Steel, zinc plated	Ф76х3.0		0	2.311.JSA.AEC	
	Ф76х4.0			2.311.JRB.AEC	
	Ф80х3.0			2.311.J6A.AEC	
	Ф89х3.0			2.311.JYA.AEC	
	Ф89х4.0			0	
	Ф60х3.0		2.311.JLG.ADC		
	Ф76х3.0			2.311.JSG.AEC	
	Ф76х4.0			0	
Steel, zinc plated with steel flange	Ф80х3.0			2.311.J6G.AEC	
	Ф89х3.0			2.311.JYG.AEC	
	Ф89х4.0			0	
	Ф50x1.5	2.311.NHC.BCC	0		
Stainless steel	Ф60х2.0	2.311.NOC.BCC	2.311.NOC.BDC		
	Ф76х3.0		0	2.311.NSC.BEC	

^{○——}Available configuration

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





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	Ф20	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)			
rube	וט	Ф12 (M8x15)	Ф15 (M10x20)	Ф20 (M12x25)	
	Ф50x1.5	2.321.JHA.ACC	0		
	Ф50x2.0	2.321.JWA.ACC	0		
	Ф60х2.0	2.321.JOA.ACC	2.321.JOA.ADC		
	Ф60х3.0		2.321.JLA.ADC		
Steel, zinc plated	Ф76х3.0		0	2.321.JSA.AEC	
	Ф76х4.0			2.321.JRB.AEC	
	Ф80х3.0			2.321.J6A.AEC	
	Ф89х3.0			2.321.JYA.AEC	
	Ф89х4.0			0	
	Ф60х3.0		2.321.JLG.ADC		
	Ф76х3.0			2.321.JSG.AEC	
Steel, zinc plated with steel flange	Ф76х4.0			0	
Steer, zinc plated with steer hange	Ф80х3.0			2.321.J6G.AEC	
	Ф89х3.0			2.321.JYG.AEC	
	Ф89х4.0			0	
	Ф50x1.5	2.321.NHC.BCC	0		
Stainless steel	Ф60х2.0	2.321.NOC.BCC	2.321.NOC.BDC		
	Ф76х3.0		0	2.321.NSC.BEC	

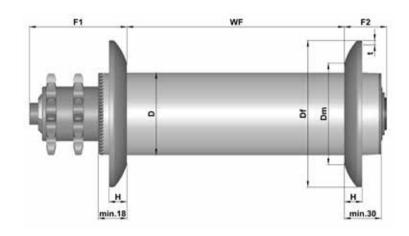
O——Available configuration

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



2311/2321 Series Driven Conveyor Roller

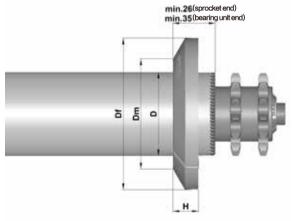
Steel Flange (Welded Type)

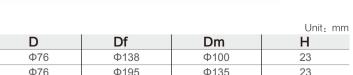


				Unit: mm
D	Df	Dm	H	t
Ф60	Ф120	Ф80	12	3
Ф76	Ф135	Ф88.5	16.5	4
Ф80	Ф150	Ф110	18	4
Ф89	Ф150	Ф110	18	4

- 1. Forms a pathway for the product being conveyed.
- 2.Steel flange and tube are welded together making it strong and durable.
- 3. Suitable for the zinc plated steel tube only.

Aluminum Flange (Clamp Type)

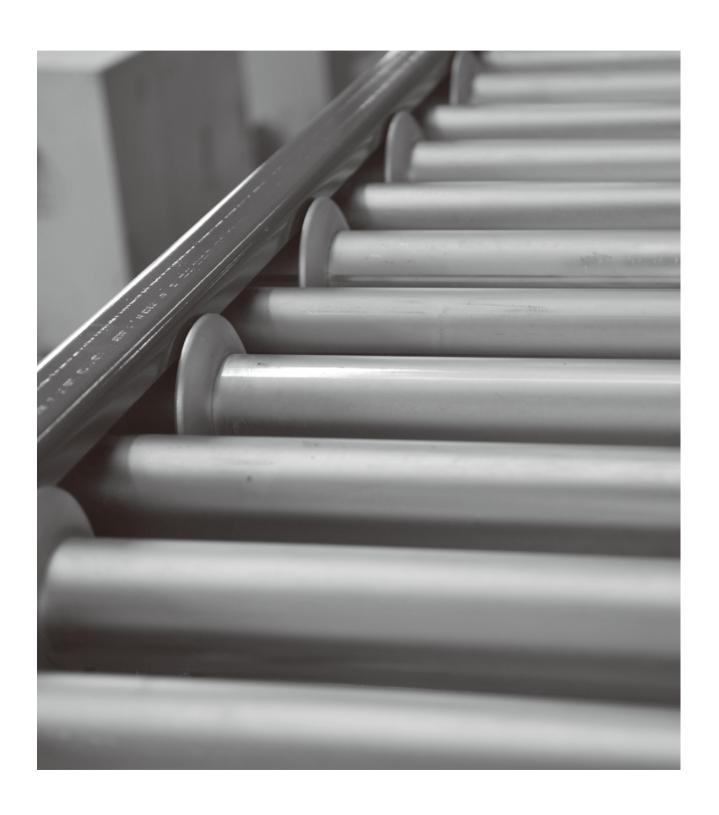






- 1. Aluminum flange is clamped onto the tube with bolts. Suitable for medium duty. 23 Φ76 Ф195 Ф135
 - 2. Flange position is adjustable according to the size of the goods.
 - 3. Suitable for stainless steel tube and hard chrome plated pipe.
- Aluminum clamp type flanges are installed on the roller by the customer.







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	P. 100	68-69
Steel sprocket, polyamide bearing housing, attractive, durable.	3211/3221	Ф50/60	- Joseph	70-71
Steel sprocket, steel bearing housing, accumulation force is adjustable, suitable for medium duty accumulation.	3816/3826	Ф50/60/76		72-75



3214/3224 Series Accumulating Conveyor Roller



3214/3224 Series

Polymer Single/Double Sprocket Accumulating Roller

Products Features

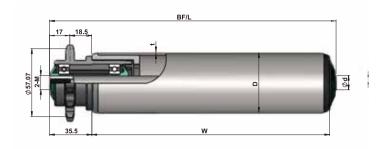
- With typical friction driven accumulation, the accumulation force is associated to load capacity.
- The bearing end cap consists of a precision ball bearing, a polymer housing and end cap seal. Combined they provide an attractive, smooth and quite running roller.
- The design of the end cap protects 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.
- Suitable for conveying weight 10 30kg.
- Temperature range: 0 ~ +40℃.

Specifications

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

Drive Element	
Sprocket	Polyamide, black

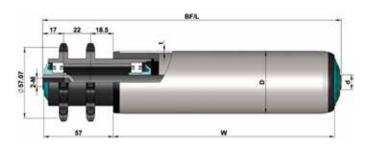




Tube Dia.(D)	Shaft Dia.(d)		Sprocket Type
Ф50	Ф12/15	BF/L=W+41	08B14T
Ф60	Ф12/15	BF/L=W+41	08B14T

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

O——Available configuration



3224 Series Internal Thread

Tube Dia.(D)	Shaft Dia.(d)		Sprocket Type
Ф50	Ф12/15	BF/L=W+63	08B14T
Ф60	Ф12/15	BF/L=W+63	08B14T

Tube	D*T	D*T Shaft Dia.(d)	
Tube		Ф12 (M8x15)	Ф15 (M10х20)
Steel, zinc plated	Ф50x1.5	3.224.JHA.ACC	3.224.JHA.ADC
	Ф60х2.0	3.224.JOA.ACC	3.224.JOA.ADC
Stianless steel	Ф50x1.5	3.224.NHC.BCC	3.224.NHC.BDC
	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

Products Features

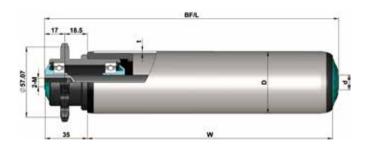
- With typical friction driven accumulation, the accumulation force is associated to load capacity.
- The bearing end cap consists of a precision ball bearing, a polymer housing and end cap seal. Combined they provide an attractive, smooth and quite running roller.
- The design of the end cap protects the bearings by providing excellent resistance to dust and splashed water.
- Utilizes durable, steel sprockets.
- Suitable for conveying weight 10 30kg.
- Temperature range: -5°C ~ +40 °C.

Specifications

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

Drive Element	
Sprocket	Steel



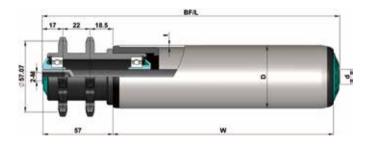


3211 Series Internal Thread

Tube Dia.(D)	Shaft Dia.(d)		Sprocket Type
Ф50	Ф12/15	BF/L=W+41	08B14T
Ф60	Ф12/15	BF/L=W+41	08B14T

Tube	D*T	Shaft Dia.(d)		
Tube	D I	Ф12 (M8x15)	Ф15 (M10x20)	
Steel, zinc plated	Ф50x1.5	3.211.JHA.ACC	3.211.JHA.ADC	
Steet, zinc plated	Ф60х2.0	0	0	
Stianless steel	Ф50x1.5	3.211.NHC.BCC	3.211.NHC.BDC	
Stiarness steel	Ф60х2.0	0	0	

O-Available configuration



3221 Series Internal Thread

Tube Dia.(D)	Shaft Dia.(d)		Sprocket Type
Ф50	Ф12/15	BF/L=W+63	08B14T
Ф60	Ф12/15	BF/L=W+63	08B14T

Tube	D*T	Shaft Dia.(d)		
Tube	וט	Ф12 (M8x15)	Ф15 (M10x20)	
Steel, zinc plated	Ф50x1.5	3.221.JHA.ACC	3.221.JHA.ADC	
Steel, Zinc plated	Ф60х2.0	3.221.JOA.ACC	3.221.JOA.ADC	
Stianless steel	Ф50x1.5	3.221.NHC.BCC	3.221.NHC.BDC	
Stiariless steel	Ф60х2.0	3.221.NOC.BCC	3.221.NOC.BDC	



3816/3826 Series Accumulating Conveyor Roller



3816/3826 Series

Steel Single/Double Adjustable Accumulating Roller

Products Features

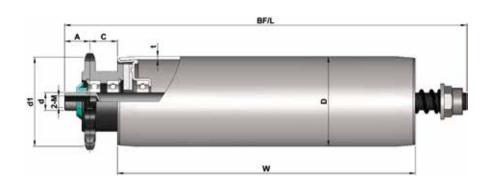
- The accumulation force can be adjusted with high flexibility by the nut at the end of the roller.
- The precision ball bearing is pressed tightly into the steel bearing housing for maximum durability.
- The friction housing is made of special material which greatly improves its abrasion resistance and lifespan.
- Suitable for conveying weight 10 80kg.
- Temperature range: -5°C ~ +80°C.

Specifications

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

Drive Element	
Sprocket	Steel





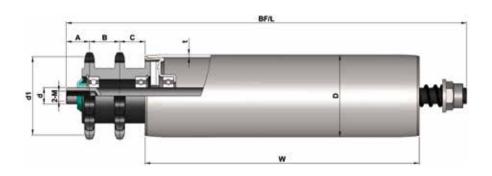
3816 Series Internal Thread

Tube Dia.(D)	Shaft Dia.(d)		Sprocket Type	Α	С	d1
Ф50	Ф12	BF/L=W+70	08B11T	17	18.5	Ф45.08
Ф60	Ф12/15	BF/L=W+70	08B14T	17	18.5	Ф57.07
Ф76	Ф20	BF/L=W+78	10A13T	20	18.5	Ф66.33

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



3816/3826 Series Accumulating Conveyor Roller



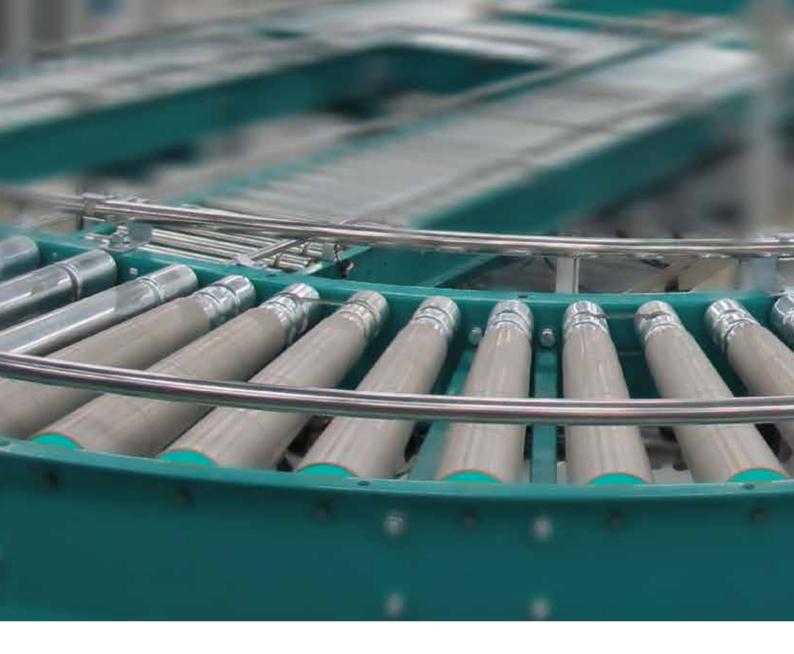
3826 Series Internal Thread

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	Ф12/15	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	וט	Ф12 (M8x15)	Ф15 (M8x15)	Ф20 (M12x25)		
	Ф50x1.5	3.826.JHA.ACC				
Steel, zinc plated	Ф60х2.0	3.826.JOA.ACC	3.826.JOA.ADC			
	Ф76х3.0			3.826.JSA.AEC		
	Ф50х1.5	3.826.NHC.BCC				
Stianless steel	Ф60х2.0	3.826.NOC.BCC	3.826.NOC.BDC			
	Ф76х3.0			3.826.NSC.BEC		







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°).

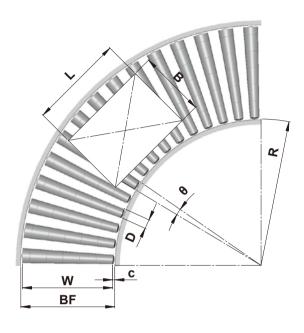




Rollers are listed according to their series and available features.

Product features	Series	Small head diameter	Driving element	Page
Tapered sleeve, attractive, low noise.	1600	Ф52.9/56		78-81
Tapered sleeve, O-Belt drive, light duty conveying, groove position customized.	2640	Ф52.9/56		82-84
Tapered sleeve, O-belt drive, light duty conveying, smooth running.	2660	Ф52.9/56		85-87
Tapered sleeve, poly-vee drive, Medium duty conveying, high speed, low noise.	2650	Ф52.9/56		88-90
Tapered sleeve, polymer sprocket, medium duty conveying, attractive, low noise.	2624	Ф52.9/56		91-92
Steel tube, medium duty conveying, strong, durable.	1500	Ф50		93-94
Steel tube and sprocket, medium duty conveying, strong, durable.	2521	Ф50	ŢŢ	95-97





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, eq. 1/16, 1/30, it's reduction formula is K=2*tan 0/2

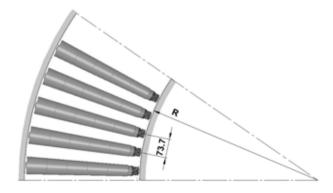
c — the space between the tapered roller's smaller head and the inner side of the frame.

Series	Taper	Small dia.(D)	Curve radius(R)
1600	3.6°	52.9	830
2624	3.0	56	880
2650	3.6°	52.9	800
2660	3.0	56	850
2640	3.6°	52.9	760
2040	3.0	56	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 P*)

For 2650 series poly-vee tapered rollers the recommended pitch of poly-vee pulleys is 73.7mm. The angle between tapered rollers should not exceed 5°.



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=600 Wit=561, WT=550

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

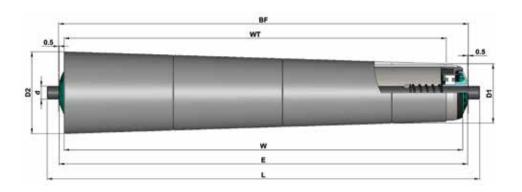
Products Features

- Based on the 1200 Series, fitted with a grey polypropylene taper sleeve; abrasion resistant, low noise, shockproof.
- 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.
- Temperature range: −5°C ~ 40°C.

Specifications

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



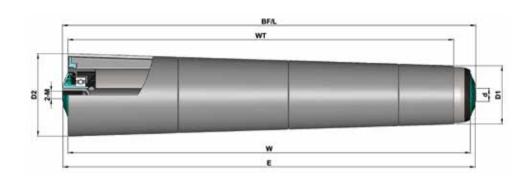


1600 Series Spring Loaded

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

Tube	D*T	WT D1	WT D1	D2	Shaft D	ia.(d)
Tube	וטו	VVI		D2	11hex	Ф12
		300	Ф56	Ф74.9		
		350	Ф52.9	Ф74.9		
		400	Ф56	Ф81.1		
		450	Ф52.9	Ф81.1	1.600.HHJ.AFA	1.600.HHJ.ACA
		500	Ф56	Ф87.4		
		550	Ф52.9	Ф87.4		
Steel, zinc plated, tapered sleeve	Ф50x1.5	600	Ф56	Ф93.7		
		650	Ф52.9	Ф93.7		
		700	Ф56	Ф100		
		750	Ф52.9	Ф100		
		800	Ф56	Ф106.3		
		850	Ф52.9	Ф106.3		





1600 Series Internal Thread

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

Tube		WT D1	\//T	D2	Shaft D	ia.(d)
Tube			DZ	Ф12 (M8x15)	Ф15 (M10x20)	
		300	Ф56	Ф74.9		1.600.HHJ.ADC
		350	Ф52.9	Ф74.9		
		400	Ф56	Ф81.1		
		450	Ф52.9	Ф81.1	1.600.HHJ.ACC	
		500	Ф56	Ф87.4		
		550	Ф52.9	Ф87.4		
Steel, zinc plated, tapered sleeve	Ф50x1.5	600	Ф56	Ф93.7		
		650	Ф52.9	Ф93.7		
		700	Ф56	Ф100		
		750	Ф52.9	Ф100		
		800	Ф56	Ф106.3		
		850	Ф52.9	Ф106.3		





2640 Series

Double Grooved Tapered Sleeve Roller

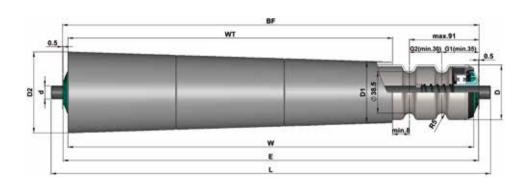
Products Features

- Based on the 2240 Series, covered with grey polypropylene taper sleeve;
 abrasion resistant, low noise, shockproof.
- 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 load 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.

Specifications

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



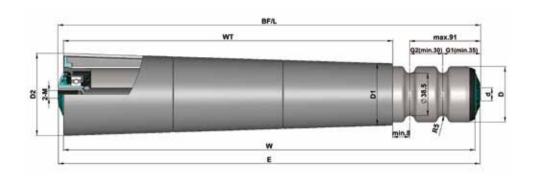


2640 Series Spring Loaded

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	ia.(d)
l ube		VVI	וט	DZ	11hex	Ф12
		300	Ф56	Ф74.9		2.640.JHJ.ACA
		350	Ф52.9	Ф74.9		
		400	Ф56	Ф81.1		
		450	Ф52.9	Ф81.1	2.640.JHJ.AFA	
		500	Ф56	Ф87.4		
		550	Ф52.9	Ф87.4		
Steel, zinc plated, tapered sleeve	Ф50x1.5	600	Ф56	Ф93.7		
		650	Ф52.9	Ф93.7		
		700	Ф56	Ф100		
		750	Ф52.9	Ф100		
		800	Ф56	Ф106.3		
		850	Ф52.9	Ф106.3		





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	D*T WT D1	D1	D1 D2	D2 Shaft Dia.(d)	
Tube	וטו		DZ	Ф12 (M8x15)	Ф15 (M10x20)	
		300	Ф56	Ф74.9		2.640.JHJ.ADC
		350	Ф52.9	Ф74.9		
		400	Ф56	Ф81.1		
Steel, Zinc-plated, tapered sleeve		450	Ф52.9	Ф81.1	2.640.JHJ.ACC	
		500	Ф56	Ф87.4		
		550	Ф52.9	Ф87.4		
	Ф50x1.5	600	Ф56	Ф93.7		
		650	Ф52.9	Ф93.7		
		700	Ф56	Ф100		
		750	Ф52.9	Ф100		
		800	Ф56	Ф106.3		
		850	Ф52.9	Ф106.3		





2660 Series

Double Groove O-Belt Pulley Tapered Sleeve Roller

Products Features

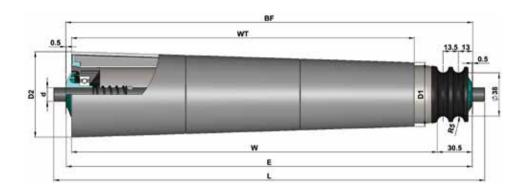
- Based on the 2260 Series, covered with grey polypropylene taper sleeve; abrasion resistant, low noise, shockproof.
- The O-belt pulley is located on the head end of the roller which separates the drive area and the conveying area avoiding interference between the O-belt and the conveyed goods.
- The 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 load 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.

Specifications

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

Drive Element	
O-belt pulley	Polyamide, black



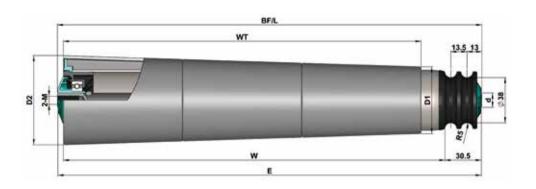


2660 Series Spring Loaded

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	וטו	VVI	וט	DZ	11hex	Ф12
		300	Ф56	Ф74.9		2.660.HHJ.ACA
		350	Ф52.9	Ф74.9		
		400	Ф56	Ф81.1		
		450	Ф52.9	Ф81.1	2.660.HHJ.AFA	
		500	Ф56	Ф87.4		
		550	Ф52.9	Ф87.4		
Steel, zinc plated, tapered sleeve	Ф50x1.5	600	Ф56	Ф93.7		
		650	Ф52.9	Ф93.7		
		700	Ф56	Ф100		
		750	Ф52.9	Ф100		
		800	Ф56	Ф106.3		
		850	Ф52.9	Ф106.3		





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	D*T WT	WT D1	WT D1	WT D1	WT D1	WT D1	WT D1	WT D1	WT D1	WT D1	WT D1	WT D1	WT D1	WT D1	D2	Shaft	Dia.(d)
Tube	וט		WI DI	DZ	Ф12 (M8x15)	Ф15 (M10x20)												
		300	Ф56	Ф74.9		2.660.HHJ.ADC												
		350	Ф52.9	Ф74.9														
		400	Ф56	Ф81.1														
		450	Ф52.9	Ф81.1	2.660.HHJ.ACC													
		500	Ф56	Ф87.4														
		550	Ф52.9	Ф87.4														
Steel, zinc plated, tapered sleeve	Ф50x1.5	600	Ф56	Ф93.7														
		650	Ф52.9	Ф93.7														
		700	Ф56	Ф100														
		750	Ф52.9	Ф100														
		800	Ф56	Ф106.3														
		850	Ф52.9	Ф106.3														





2650 Series

Poly-Vee Tapered Sleeve Roller

Products Features

- Based on the 2250 Series, covered with grey polypropylene taper sleeve; abrasion resistant, low noise, shockproof.
- 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 load 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 30kg.
- The roller is light, easy start-up.
- Temperature range: -5°C ~ 40°C.

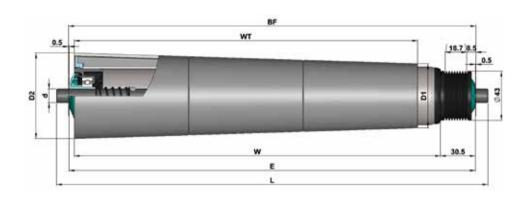
Specifications

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

Drive Element	
Poly-vee wheel	Polyamide, black





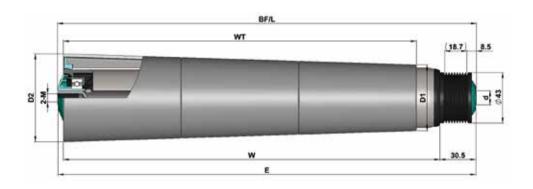


2650 Series Spring Loaded

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

Tube	D*T	WT	WT D1 D2		D1 D2	Shaft	Dia.(d)
rube	וט	VVI	VV D1	DZ	11hex	Ф12	
		300	Ф56	Ф74.9		2.650.HHJ.ACA	
		350	Ф52.9	Ф74.9			
		400	Ф56	Ф81.1			
		450	Ф52.9	Ф81.1	2.650.HHJ.AFA		
		500	Ф56	Ф87.4			
		550	Ф52.9	Ф87.4			
Steel, zinc plated, tapered sleeve	Ф50x1.5	600	Ф56	Ф93.7			
		650	Ф52.9	Ф93.7			
		700	Ф56	Ф100			
		750	Ф52.9	Ф100			
		800	Ф56	Ф106.3			
		850	Ф52.9	Ф106.3			





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	\//T	WT D1	D2	Shaft Dia.(d)	
Tube	וט	VVI	וט	DZ	Ф12 (M8x15)	Ф15 (M10x20)
		300	Ф56	Ф74.9		2.650.HHJ.ADC
		350	Ф52.9	Ф74.9		
		400	Ф56	Ф81.1		
		450	Ф52.9	Ф81.1	2.650.HHJ.ACC	
		500	Ф56	Ф87.4		
		550	Ф52.9	Ф87.4		
Steel, zinc plated, tapered sleeve	Ф50x1.5	600	Ф56	Ф93.7		
		650	Ф52.9	Ф93.7		
		700	Ф56	Ф100		
		750	Ф52.9	Ф100		
		800	Ф56	Ф106.3		
		850	Ф52.9	Ф106.3		





2624 Series

Polymer Sprocket Tapered Sleeve Roller

Products Features

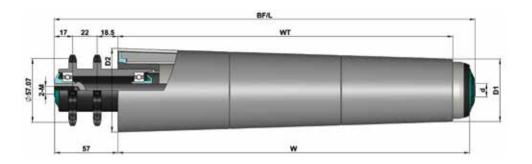
- Based on the 2224 Series, covered with grey polypropylene taper sleeve; abrasion resistant, low noise, shockproof.
- Using the polyamide sprocket roller as the drive element reduces the running noise.
- The bearing end cap consists of a precision ball bearing, a polymer housing and end cap seal. Combined 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.

Specifications

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

Drive Element	
Sprocket	Polyamide, black





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	WT	WT D1	D1 D2	Shaft Dia.(d)		
Tube		VVI	וט		Ф12 (M8x15)	Ф15 (M10x20)	
		300	Ф56	Ф74.9	2.624.HHJ.ACC	2.624.HHJ.ADC	
		350	Ф52.9	Ф74.9			
		400	Ф56	Ф81.1			
	Ф50x1.5	450	Ф52.9	Ф81.1			
		500	Ф56	Ф87.4			
		550	Ф52.9	Ф87.4			
Steel, zinc plated, tapered sleeve		600	Ф56	Ф93.7			
		650	Ф52.9	Ф93.7			
		700	Ф56	Ф100			
			750	Ф52.9	Ф100		
		800	Ф56	Ф106.3			
		850	Ф52.9	Ф106.3			





1500 Series

Gravity Steel Tapered Roller

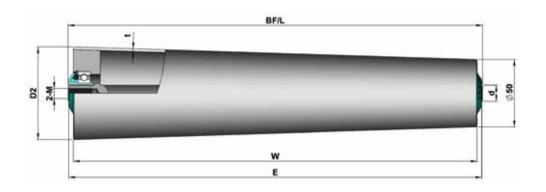
Products Features

- Steel tapered rollers are constructed with welded end caps. The bearing
 is pressed tightly into the steel bearing housing for maximum durability.
 The load capacity is greater than plastic bearing.
- The environmental working conditions are broad. They can be used in both high and low temperature applications.
- The design of the end cap protects the bearings by providing excellent resistance to dust and splashed water.
- The taper can be customized (standard 3.6°).
- The weight of single items to be conveyed should not exceed 200kg.
- Temperature range: -10°C ~ 80°C.

Specifications

Bearing Unit	
Bearing housing	Steel, zinc plated
End cap	Polypropylene, Damon green
Precision ball bearing	6002





1500 Series Internal Thread

Tube Dia.(D)	Shaft Dia.(d)			
Ф50	Ф12/15	BF=W+8	E=W+7	L=W+8

Tube	D*T	Shaft Dia.(d)	
Tube		Ф12 (M8x15)	Φ15 (M10x20)
Steel, zinc plated	Ф50x2.0	1.500.JWB.ACC	1.500.JWB.ADC





2521 Series

Sprocket Steel Tapered Roller

Product Features

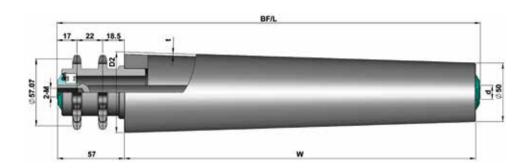
- Welding the steel sprocket to the tapered steel tube gives it the capacity to transmit high torque making it suitable for medium/heavy duty loads.
- The environmental working conditions are broad. They can be used in both high and low temperature applications.
- The design of the end cap protects the bearings by providing excellent resistance to dust and splashed water.
- The taper can be customized (standard 3.6°).
- Narrow tooth sprockets are used to provide smooth roller rotation.
- The weight of single items to be conveyed should not exceed 200kg.
- Temperature range: -10°C ~ 80°C.

Specifications

Bearing Unit	
Bearing housing	Steel, zinc plated
End cap	Polypropylene, Damon green
Precision ball bearing	6002

Drive Element	
Sprocket	Steel, zinc plated





2521 Series Internal Thread

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

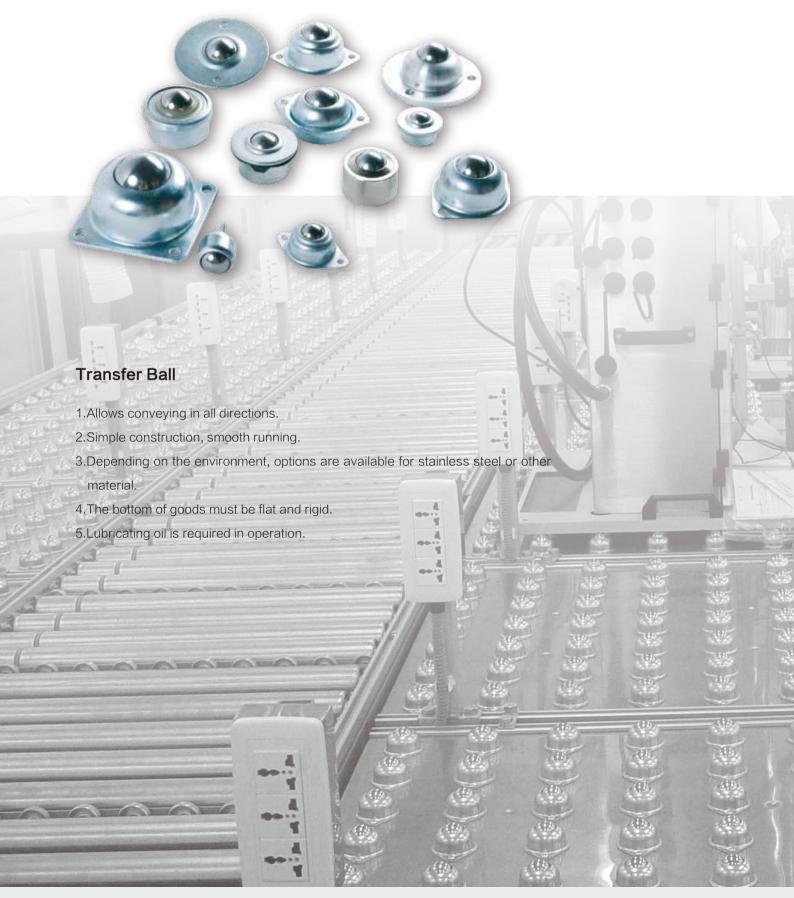
Tube	D*T	Shaft Dia.(d)		
rube		Ф12 (M8x15)	Ф15 (M10x20)	
Steel, zinc plated	Ф50х2.0	2.521.JWB.ACC	2.521.JWB.ADC	







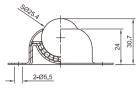
Ball Transfer

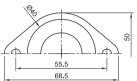




WA-01-A



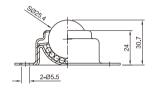


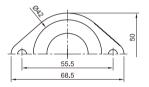


Body & surface	Steel, zinc plated
Ball material	Q235
Static load(kg)	25
Dynamic load(kg)	30
Weight(g)	142

WA-01-B



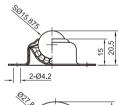


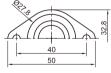


Body & surface	Stainless steel, 304
Ball material	Stainless steel, 202
Static load(kg)	25
Dynamic load(kg)	30
Weight(g)	136

WA-01-C



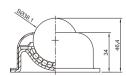


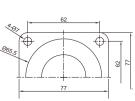


Body & surface	Steel, zinc plated
Ball material	Q235
Static load(kg)	15
Dynamic load(kg)	20
Weight(g)	38

WA-02







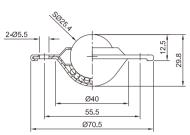
Body & surface	Steel, zinc plated
Ball material	Q235
Static load(kg)	90
Dynamic load(kg)	110
Weight(g)	480



Ball Transfer

WB-01

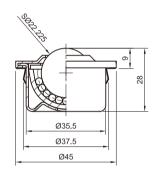




Body & surface	Steel, zinc plated
Ball material	Q235
Static load(kg)	45
Dynamic load(kg)	55
Weight(g)	147

WC-02-T

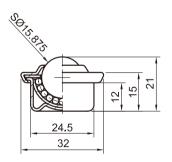




Body & surface	Steel, zinc plated
Ball material	Q235
Static load(kg)	40
Dynamic load(kg)	50
Weight(g)	126

WC-03

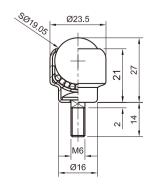




Body & surface	Steel, zinc plated
Ball material	Q235
Static load(kg)	15
Dynamic load(kg)	17
Weight(g)	44

WD-01



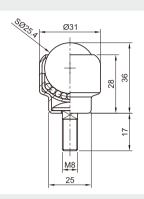


Body & surface	Steel, zinc plated
Ball material	Q235
Static load(kg)	30
Dynamic load(kg)	40
Weight(g)	50



WD-02

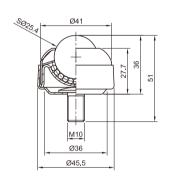




Body & surface	Steel, zinc plated
Ball material	Q235
Static load(kg)	40
Dynamic load(kg)	50
Weight(g)	117

WD-03

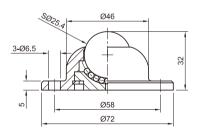




Body & surface	Steel, zinc plated
Ball material	Q235
Static load(kg)	40
Dynamic load(kg)	50
Weight(g)	171

WS-01

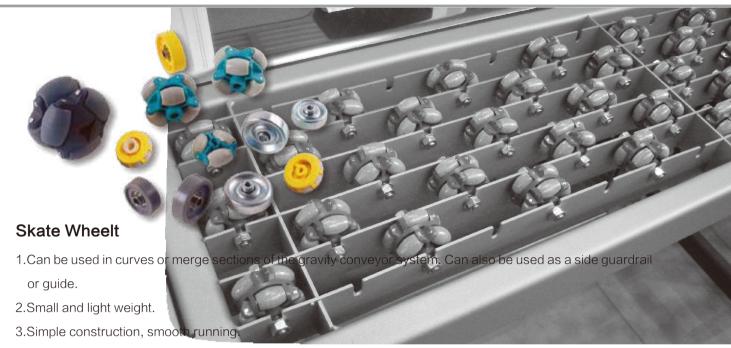




Body & surface	Aluminum
Ball material	Stainless steel, 420
Static load(kg)	150
Dynamic load(kg)	180
Weight(g)	190

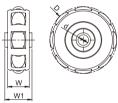


Skate Wheel



- 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	Ф51	16.5	20.5			29
GD-02A-12		Ф12.3	Φ51	16.5	20.5			27
GD-01B-10		Ф10	Φ51	16.5	16.5			27
GD-01C-13	POM+PA6	Ф13	Ф51	16.5	16.5	8	10	26
GD-01D-10		Ф10	Φ51	16.5	27			30
GD-02-13K	FOMITAG	Ф13	Φ51	16.5	16.5			25
GD-02E-6		Φ6	Φ51	16.5	16.5			26
GD-03A-10		Ф10	Ф40	15	15			10
GD-03AT-8		Φ8	Ф40	15	25			15
GD-03AT-10		Ф10	Ф40	15	25			15
GD-03C-10		Ф10	Ф30	12	12			7









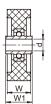






GA-01 Series



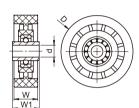




Series	Material	d	D	W	W1	Static load(kg)	Dynamic load(kg)	Weight (g)
GA-01-8	ABS	Ф8.1	Ф48.5	16	18	40	60	35
GA-01A-8	ABS	Ф8.1	Ф38	14.3	18	35	50	26

GA-02 Series

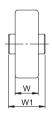




						Static load(kg)		Weight (g)
GA-02-8	ABS	Ф8.1	Ф48.5	16	18	40	60	30

GB Series







Series	Material	d	D	W	W1	Static load(kg)	Dynamic load(kg)	Weight (g)
GB-01-6	Steel, zinc plated	Ф6.5	Ф39	13.2	20.6	8	10	56
GB-02A-8	Steel, zinc plated	Φ8.1	Φ49	16	20.6	10	15	66

WE Series



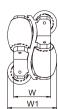


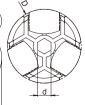


Series	Material	d	D	W1	Static load(kg)	Dynamic load(kg)	Weight (g)
WE-01-12	Reinforced nylon	Ф12.5	Φ80	64	25	25	200
WE-01A-11hex	Reinforced nylon	11hex	Φ80	64	25	25	200
WE-02-8	Reinforced nylon	Φ8	Φ48	40	25	25	60

WH Series



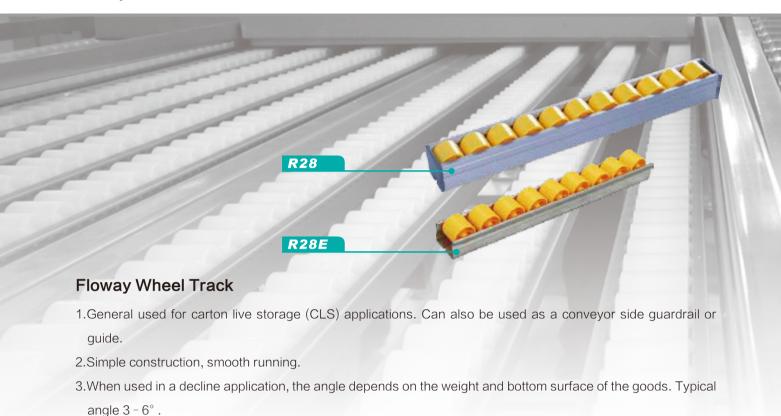




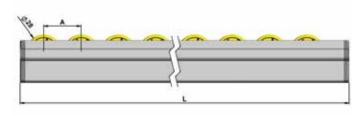
Series	Material	d	D	W	W1	Static load(kg)	Dynamic load(kg)	Weight (g)
WH-01-11hex		11hex	Φ60	/	40	25	25	65
WH-02-12	Reinforced	Ф12	Φ60	/	40	25	25	65
WH-04-10	nylon	Ф10	Φ60	44	40	25	25	87
WH-05-8		Ф8.2	Φ48	40	37	20	20	65



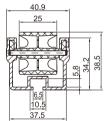
Floway Wheel Track



R28

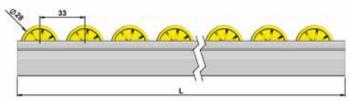


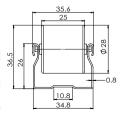
4. Typically supported with a frame every 600 – 800mm.



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

R28E





Frame	Steel, zinc-plated
Wheel	PP
Load	12.5kg/m
Part No.	R28E-L



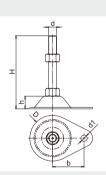
Adjustable Foot

- 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

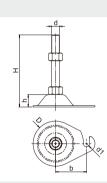




Type	d	D	Н	h	b	d1	Load(kg)	Weight(g)
BA-14	M14	Ф80	128	22	55	Ф11	160	290
BA-16	M16	Ф80	156	22	55	Ф11	180	367

BB Series

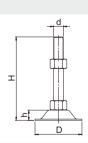




Туре	d	D	Н	h	b	d1	Load(kg)	Weight(g)
BB-14	M14	Ф80	128	22	55	Ф11	160	295
BB-16	M16	Ф80	156	22	55	Ф11	180	363

BJ Series

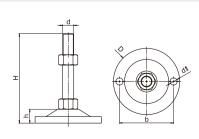




Type	d	D	Н	h	Load(kg)	Weight(g)
BJ-12	M12	Ф58	116	15	80	153
BJ-14	M14	Φ68	120	14	100	218
B I-16	M16	Φ68	148	14	140	293

BF Series





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



ZHEJIANG DAMON INDUSTRY EQUIPMENT CO.,LTD

Add: Shangqiang Industrial Park, Daixi, Huzhou, China

Tel: +86-572-3826 065 / 3826 066

Fax: +86-572-3826 080

Email: sales@damonroller.com Web: www.damonroller.com

Romania

DAMON Industrial Europe Srl

Adress: Apahida, Libertatii Str., No. 21, 407035, Cluj,

Romania

Tel: 0040-364130050 Email: sales@damonroller.ro Web: www.damonroller.com

Australia

DAMON Australia

Address: 30 Grasslands Avenue Craigieburn VIC

3064, Australia

Tel: 0061-393337034 Fax: 0061-393084896

E-mail: info@damon-group.com.au Web: www.damon-group.com.au

America

DA Roller Corporation

Address: 11310 Rockfield Ct, Cincinnati, OH 45241,

USA.

Tel: 001-5138981850 Email: info@daroller.com Web: www.daroller.com

Japan

Kyowa Manufacturing Co., Ltd.

Address: 570-10 Kubota-cho, Kasai-city, Hyogo

pref. 675–2364 JAPAN
Tel: 0081–790420601
Fax: 0081–790424895
Email: sales@pulseroller.com
Web: www.pulseroller.com

Singapore

Rollflex Pte. Ltd.

Address: Blk 22, Woodlands Link, #04-70, Singapore

738734

Tel: 0065-62570811 Fax: 0065-62573811

E-mail: sales.sg@rollflexmfg.com Web: www.rollflexmfg.com

Indonesia

PT. Rollflex Manufacturing Indonesia

Address: Taman Tekno BSD, Sektor XI Blok H-11 No.

7 Serpong, Tangerang 15314 Tel: 006221-36720399 Fax: 006221-36720388

E-mail: sales.id@rollflexmfg.com Web: www.rollflexmfg.com

Malaysia

Rollflex (M) Sdn.Bhd.

Address: Lot58908, No.3399, Jalan Pekeliling Tanjung 27/2 Kawasan Perindustrian Indahpura, 81000 Kulai,

Johor, Malaysia. Tel: 006012-7272896

E-mail: sales.my@rollflexmfg.com Web: www.rollflexmfg.com