



银轴智能

YINZHOU INTELLIGENT

辊筒及辊筒零部件 2023 V2 ROLLERS & ROLLER COMPONENTS

无动力辊筒 动力辊筒 积放滚筒 阻尼辊筒
Gravity Roller, Driven Roller, Accumulating Roller, Brake Roller



银轴智能 YINZHOU intelligent

YIN ZHOU

Take you into the age of intelligence

银轴智能装备



PHILOSOPHY

Sincere, diligent, pioneering, innovative

OBJECTIVES

Specilization, refinement, branding

POISTIONING

Industry-leading logistics system module provider

MISSION

Achievement of customers, expolyees and the company



Yinzhou Intelligent, was established in 2004, insisting on making well of every pieces of roller, every set of intelligent logistics system conveyor module and other conveyor parts, ingenuity to create a benchmark enterprise in the industry.

The large-scale manufacturing facility has a total investment of 120 million Yuan, covers an area of more than 30,000 square meters, and an annual output value of 200 million Yuan. We are one of professional supplier in intelligent logistics industry, products are from conveyor parts to conveyor system modules.

As a national high-tech enterprise, we have R&D and innovation platforms like design center, research and development center, university cooperation laboratory. Meanwhile, our company has obtained the authentication of ISO9001-2021, ISO14001-2016, ISO45001-2018 and AAA enterprise credit. We are striving to become an industry-leading logistics system module provider.

We have set up a domestic marketing center and an overseas business division, our products are sold at home and abroad. Through years of precipitation, we have been praisised by customers by excellent quality products and efficient service, which making us quickly integrate with international intelligent manufacturing. In the intelligent logistics industry, we have accumulated rich experience, and through "accurate positioning, pressional focus, worry-free after service", we do hope customers get the most valuable products and good service from us.

Cerfificates of Patent 专利证书



Honer & Cerfificate 荣誉证书





车削工艺

LATHE PROCESS



焊接工艺

WELDING TECHNOLOGY



装配工艺

ASSEMBLY PROCESS



检测工艺

TESTING PROCESS

Roller Design Manual 05- 10

Gravity Conveyor Roller 11-15

R1100 Series

Light/Medium Duty Conveyor Roller.....12

R1200 Series

Universal Conveyor Roller 13

R1700 Series Bulk Handling Roller.....14

R1800 Series

Medium/Heavy Duty Conveyor Roller.....15

Driven Conveyor Roller 16-22

R2230/R2240 Series

Single/Double Grooved Roller 17

R2250 Series Poly-V Pulley Roller.....18

R2260 Series O-belt Pulley Roller.....19

R2214/R2224 Series

Polymer Single/Double Sprocket Roller.....20

R2411/R2421 Series Steel Single/Double Sprocket Roller with Polymber Bearing Housing.....21

R2311/R2321 Series Steel Single/Double Sprocket Roller with Steel Bearing Housing..... 22

Accumulating Conveyor Roller 23-26

R3214/R3224 Series Polymer Single/Double Sprocket Accumulating Roller.....24

R3211/3221 Series Steel Single/Double Sprocket Accumulating Roller.....25

R3816/3826 Series Steel Single/Double Sprocket Adjustable Accumulating Roller..... 26

Tapered Conveyor Roller 27-34

R1500 Series Gravity Tapered Roller.....28

R1600 Series

Gravity Tapered Sleeve Roller.....29

R2640 Series

Grooved Tapered Sleeve Roller.....30

R2650 Series

Poly-V Pulley Tapered Sleeve Roller.....31

CONTENTS 目录

R2660 Series

O-belt Pulley Tapered Sleeve Roller.....32

R2624 Series

Polymer Sprocket Tapered Sleeve Roller..... 33

R2621 Series Steel Sprocket Tapered Roller... 34

Belt Conveyor Pulley 35-38

BCP-D Series Rotating Shaft Driven Pulley... 36

BCP-R Series Fixed Shaft Driven Pulley38

Brake Roller 39-42

BR50/60 Series Internal Brake Roller..... 39

BR80 Series Internal Brake Roller.....40

BE120 Series External Brake Roller.....41

BT120 Series External Series Brake Roller...42

Conveyor Roller Components 35-40

Steel Bearing Assembly..... 35

Steel Accumulating Bearing Assembly..... 36

Φ50 Tapered Sleeve.....36

Polymer Bearing Assembly.....37

Polymer Sprocket Assembly..... 38

Accumulating Polymer Sprocket Assembly... 38

Poly-V Pulley Assembly..... 39

Timing Pulley Assembly.....39

O-belt Pulley Assembly.....39

Steel Single/Double Sprocket.....40

Accumulating Steel Single/Double Sprocket...40

Design Manual of Roller

Tube & Run-out

Roller tube has four common materials, they are steel tube, stainless steel tube, Aluminium alloy tube and PVC tube. According to different feature of material, they have different application.

Steel Tube

With the development of tubulation technology and welding technology, the high frequency straight seam welded tube has replaced the seamless tube to be the main current roller tube in logistics. Compared with seamless tube, welded tube has great advantage in balance, appearance and cost, meanwhile in the mechanics and physical performance totally meet the requirement of roller in the loading and bending.

Run-out is the key factor of the roller function. The greatest harm of bad run-out is make the convey not steady or stable, influencing the accuracy of convey. Run-out caused by many factors, mainly decided by the tube's ovality and straightness. Longwei roller's tube all conformed to the requirement of GB/T13793 standard, and Longwei's size tolerance is even less, so as to ensure Longwei roller's standard is much higher than the requirement of JB/T7012 standard.

Stainless Steel

1. Nice appearance.
2. Corrosion resistance is good, much more durable than common steel tube.
3. High-temperature resistance, oxidation resistance, intension is high.
4. No requirement of surface treatment, easy maintenance.
5. Smooth and easy cleaning.

When you have this requirement, you could choose the stainless steel tube (GB/T 12770) as the roller tube.



Unit: mm

Roller Length	Radial Run-out	
	Straight 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	/

Remark: exclude grooved roller

Common stainless steel is classified into two types which has its own material number according to different chemical composition. Please choose as your need and request, and please mark out in the order for stainless steel roller.

Material	201	304
Magnetic	Yes	No
Corrosion Resistance	Corrosion resistance is so so, could work for long time in the common air polluted environment without chloride and basically non-rust.	Good capacity of corrosion resistance to aqueous alkali and most organic acid and mineral acid.
Decorative	Good	Good
Main Application	Mainly as decoration, or replacement of zinc-plated tube for some high temperature requirement.	Kitchen appliance, automobile parts, building materials, food production facility, hospital tools.

Special notice: for stainless steel applied in the harbor/dock, the recommend is 316.

Aluminium Alloy

Aluminium alloy could be also the material of roller tube, compared with steel tube and stainless steel tube, aluminium alloy tube has not have their hardness and intension, and the bending-proof is only 1/3 of the common steel tube, but its weight is only 36% of the steel tube, and it has some corrosion resistance, so it is widely applied in some certain industries (e.g. rubber industry).

Longwei's aluminium alloy tube conformed to GB/T4436 standard, surface abrasive blasting after anodic oxidation treatment.

PVC

The load capacity of PVC tube is much lower than the steel tube of the same diameter, but it has the features as below.

1. Low noise.
2. Well shockproof.
3. Light weight.
4. Corrosion resistance.
5. Easy cleaning.

Surface Treatment

Zinc-plated

Zinc-plated is the most popular surface treatment. The surface is electroplated through electrolysis, resulted in the rustproof in a certain extent.

1. Trivalent chromium blue-white zinc plated, confirmed to the requirement of environment protection. Special sealing process make our zinc-plated much more rustproof than common one, especially in the salt spray testing.
2. The suitable thickness of zinc layer for roller is 8-12 μ m. If zinc layer is too thin, the rustproof capacity is lowered greatly; but if too thick, the zinc layer is easily spalling, and it brings meaningless cost increase.

3. The rustproof capacity of zinc-plated is limited. It will decay quickly in the moist and acid-base environment. In the case of roller shipment by sea, special packing for shipment is still needed.

4. Zinc-plated is not of strong abrasion resistance, it will fray gradually in the operation. If needed, you could choose the hard chrome plating or other surface treatment.

5. Food is not allowed contact directly with zinc-plated surface.

PVC Sleeve

Traditional rubber lagging on surface, you could also choose the solution of PVC elastic sleeve of 2mm thickness on the roller.

1. Well protecting the bottom surface of conveyed goods (e.g. glass, SS wortle plate).
2. Well noise reduction and shock absorption.
3. Compared with steel tube, increase the friction force of roller surface, improve the convey performance of goods.
4. Shorter leadtime and higher cost performance than traditional rubber lagging.



NOTE

1. PVC elastic sleeve is not stick to tube, but shrink on the roller after opened by compressed air.
2. The elastic sleeve is cut to the size as request, so please make it clear for the length of PVC elastic sleeve (min. length 50mm) and the position on the roller in type selection. Chart below is the standard position and size of PVC elastic sleeve.

3. In the case of roller running generating axial force (e.g. axial movement or axial push-and-pull), the length of PVC elastic sleeve should be more in design.

Design information of PVC sleeve

Rubber Lagging

For more quick convey, such as accelerating convey in some station, small angle's climbing convey, normally more friction force is needed between roller surface and goods. In this case, normally we adopt rubber covered on the roller surface (popular named rubber lagging), the typical example is the driving roller with rubber lagging in the belt conveyor to increase the friction force. Furthermore, it could protect the convey surface, lower the running noise. Rubber lagging of roller is normally classified as natural rubber and NBR.



Natural Rubber: processed with quality raw material and adhesives, elasticity is very good, with well temperature resistance and alkali resistance, but not resistance to super acid, oil resistivity and solvent resistance are weak.

Nitrile Butadiene Rubber (NBR): well know for excellent oil resistivity, with well abrasion resistance and heat resistance, but electric insulativity and cold resistance are weak.

Hard Chrome Plating

Hard chrome is also called abrasion resistance chrome, belonging to functional chrome plating, it could improve the hardness of surface, improve the performance of abrasion resistance, temperature resistance and corrosion resistance.

1. Well abrasion resistance, could reach 1200HV hardness value, and the coefficient of sliding friction is only 50% of the steel and iron, also with the stickiness resistance, so it is widely applied in moulding.

2. The brittleness of chrome layer is high, not suitable to bear large distortion, otherwise it could cause the breakage or spalling of chrome layer.

Shaft

All the load on roller finally transfer to the support frame through the shaft, so the choice of shaft is very important. All the shaft of Longwei roller adopt high-quality carbon structural steel, confirmed to GB/T905 requirement about cold draw round steel.

Note: the shaft surface is zinc plated only in the case of stainless steel tube or PVC tube, while in most case (steel, zinc-plated), the shaft surface treatment is anti-rust oil applied. Of course, it is customized as you need.

Mounting method decides the complex of roller disassembly, meanwhile, different mounting method also influence the load capacity of roller.

Spring Loaded

1. Most popular mounting method in gravity roller, assembly and disassembly are simple and quick.

2. Draw bar is needed between frames to stabilize and reinforce the conveyor.

3. The installation hole on frame should be bigger than the shaft diameter, normally +0.5mm.

4. Installation allowance is needed between the frame inner width and roller. It is not only for

leaning installation, but also for the accuracy of frame installation (recommended 1mm for one side, total 2mm for the installation allowance).

5. Spring loaded mounting method is not recommended for the sprocket roller, it could cause unpredictable problem.



Female Thread

1. It is the normal mounting method of sprocket roller. Roller is fixed with the frame by the bolt fastening on both ends.

2. Assembly and disassembly take more time than other mounting way.

3. Shaft length is equal to frame inner width, normally we take -0.5mm minus deviation when manufacturing.

4. Hole on the frame should be as smaller as possible to decrease roller's altitude difference after installation. The space should no more than 0.5mm.

5. In the case of aluminium frame, shaft should be higher diameter while smaller thread to lower the risk of shaft penetrating aluminium frame.



Flat Milling

1. Originated from the mining idler, the round end of roller is machined flat to fix into the frame

groove. Assembly and disassembly is very easy.

2. Roller radial direction is not bound, so it is suitable for supporting roller of belt conveyor, but not suitable for sprocket roller, poly-vee roller or other drive roller.

3. Creating other mounting way of end hole fixed with the frame, completely delete the possibility of shaft roating, mainly applied in adjustable accumulation roller.

Roller Length

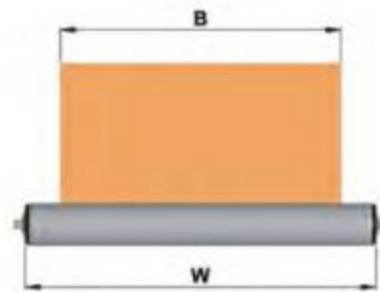
Goods of different width should choose suitable length of roller (length of roller surface, indicated by W). For straightway convey, normally should choose according to the formula as below.

$$W = B + \Delta B$$

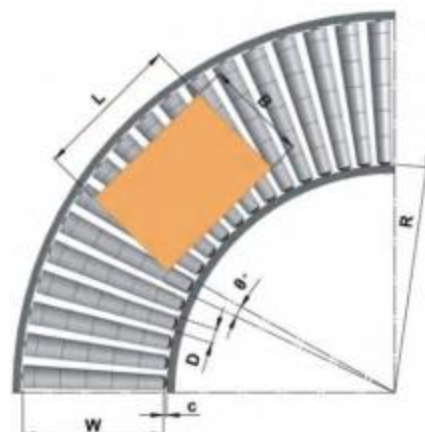
In the formula :

B—width of goods

ΔB —width allowance, normally take $\Delta B = 50 \sim 150 \text{mm}$.



For curve convey, the formula for roller length could refer to $W = \sqrt{(R+B)^2 + (L/2)^2} - R + (50 \sim 150)$, for the very hard bottom of goods, in the case of not influencing the normal convey and safty, the width of goods could exceed the length of roller, normally take $W \geq 0.8B$.



Roller Load

The main factors which influence the roller load capacity are tube, shaft and bearing. And it is decided by the weakest one among them .

1. Overload will make the tube distorted during roller operation, make the convey unstable .
2. If the load capacity of shaft is not enough, it will change the adaptive capacity of shaft, and influence the running performance .
3. If the load is much over the permitted load of bearing, it will greatly reduce bearing's lifetime .

You need to know the following design information .

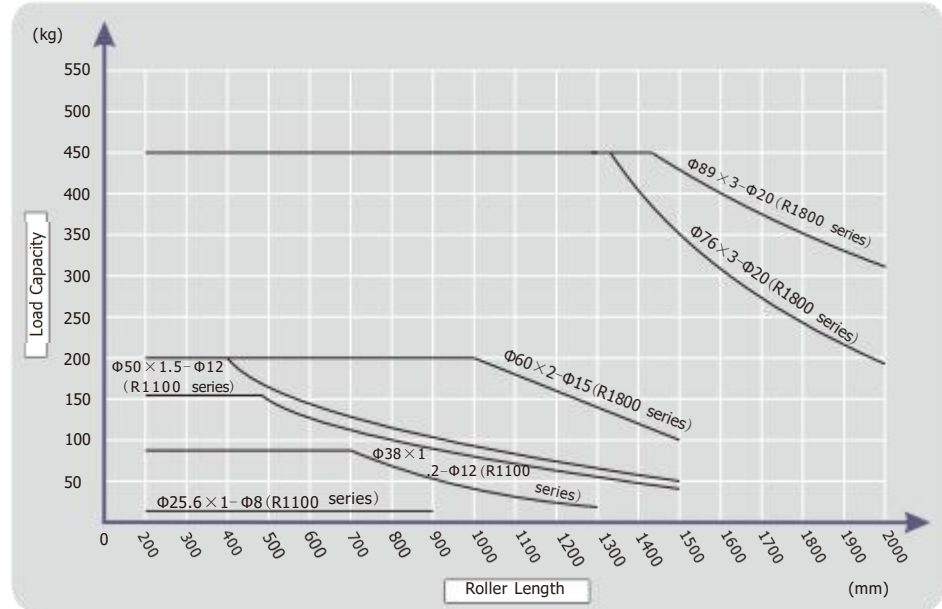
1. What we discuss is the theoretical load capacity of single roller, but in the application, you need to consider the installation error of the convey surface, local bearing fo goods' loading and unloading and so on .
2. Steel tube and stainless steel tube are suitable for heavier load, their intension and stiffness are similar so normally we consider it the same of the load capacity.
3. The installation ways like female thread, male thread which combine the shaft with the frame, should have larger load capacity than the loose connection ways (e.g. spring loaded, mortise) .
4. Precision bearing has larger load capacity than semi-precision pressing bearing. Uniformly distributed load has larger load capacity than concentrated load (curve chart is uniformly distributed, dynamic load) .
5. The closer supporting point (bearing position) to shaft end, the larger of the roller load capacity.
6. Some roller's load capacity is limited by other factors (e.g. O-belt's max.driving force, chain's ultimate tension, effective accumulation load) .



Roller Load Capacity Chart

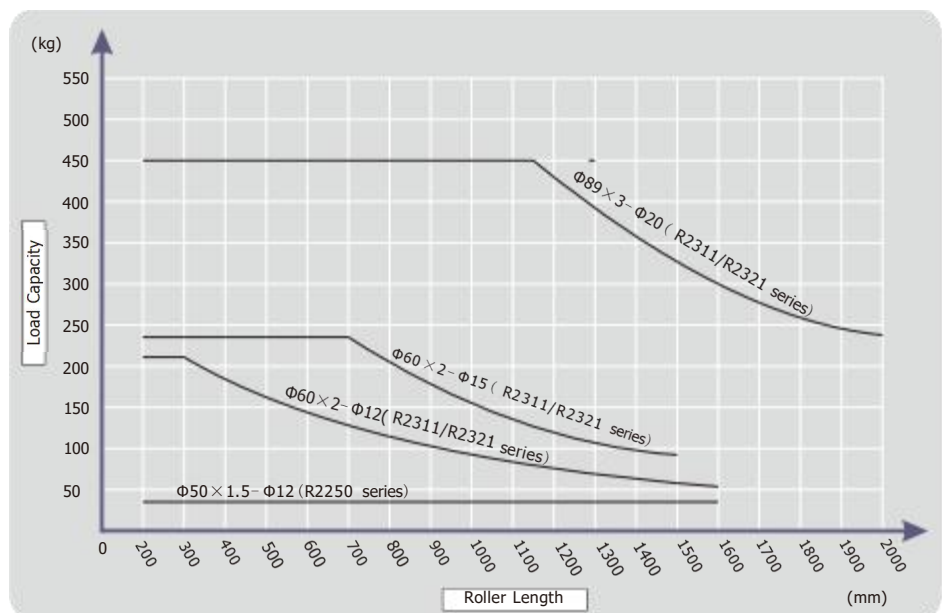
Gravity Roller

$\Phi 60 \times 2 - \Phi 15$ (GR800 series)
 series
 shaft diameter
 steel tube style



Other Roller

$\Phi 50 \times 1.5 - \Phi 12$ (DR250 series)
 series
 shaft diameter
 steel tube style





Gravity Convey Solution

Gravity convey is the most simple and popular convey. Roller running is passive. Goods is moved and conveyed by the gravity or human force. According to the arrangement ways, it is classified as leaning and horizontal.

Leaning Arrangement

Leaning Arrangement: conveyed by the gravity of goods. Simple structure, economical and practical, but not easy to control the sliding condition of goods. Suitable for short distance convey between work stations, and suitable for gravity rack convey.

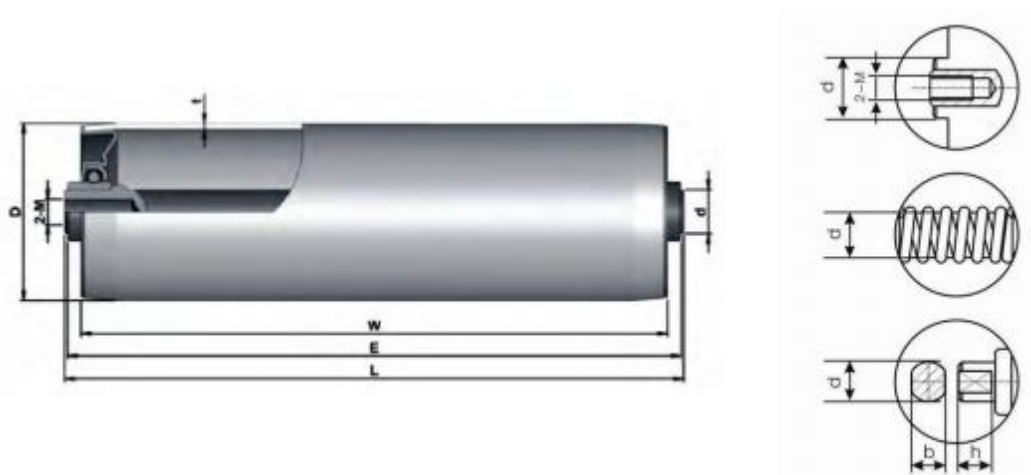
Horizontal Arrangement

Horizontal Arrangement: moved by human force, suitable for the convey of light weight, short distance and so frequent work.

R1100 Series

Light/Medium Duty Conveyor Roller

1. Configure with specially designed semi-precision bearing, roller rotation is more portable and flexible.
2. It has a larger clearance than precision ball bearings, the impact load capacity is better than other series .
3. The requirement of working environment is not high, it can work well both in high and low temperature.
4. The working noise is a little louder than other rollers, but could fully meet the requirement of the common gravity conveying.
5. Not suitable in high speed application, not suggest to be the supporting roller of belt conveyor.
6. Temperature range -10°C to $+80^{\circ}\text{C}$.



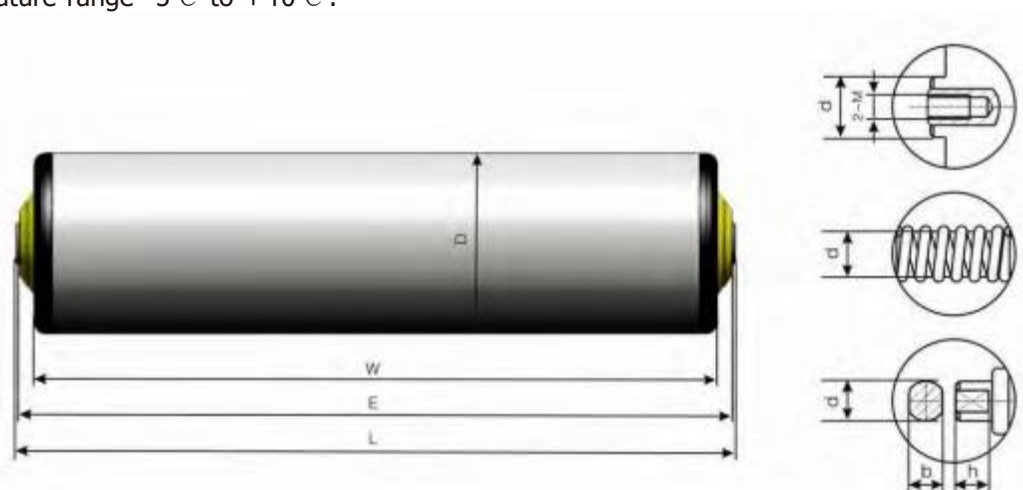
dia. × T	shaft dia.	female thread	spring loaded	flat milling	b × h	material
Φ18 × 1.2	Φ6		E=W+4			steel
Φ25 × 0.7	Φ6/Φ8	L=W+12	E=W+10			stainless steel
Φ25 × 1	Φ6/Φ8	L=W+12	E=W+10			steel, aluminum alloy
Φ38 × 1.2	Φ12	L=W+9	E=W+7	E=W+7	10 × 11	steel, stainless steel
Φ50 × 1.5	Φ8/Φ12	L=W+11	E=W+9	E=W+9	10 × 11	steel, stainless steel, aluminum alloy
Φ60 × 2	Φ12	L=W+11	E=W+9	E=W+9	10 × 11	steel, stainless steel, aluminum alloy



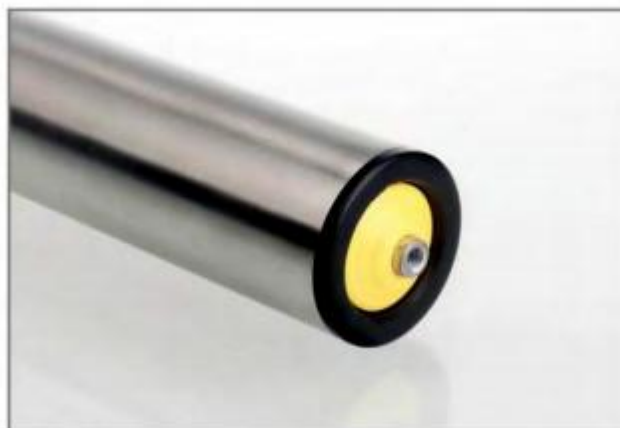
R1200 Series

Universal Conveyor Roller

- 1.As the typical product in the gravity roller series, it is widely applied, especially in the carton conveying area, e.g. airport luggage handling and logistic distribution center.
- 2.Precision ball bearing, polymer bearing housing and end cap form the bearing unit which is very important. It is not only for good looking but also further more for the smooth and quiet running.
- 3.The end cap of roller resists dust and water splash well in working environment.
- 4.The design of polymer bearing housing makes it able to operate in some special environment.
- 5.The lubricating method of bearing could be oil lubricating or grease lubricating as requirement.
- 6.Suitable for the high speed conveying. Speed could vary according to diameter and length of roller, max speed up to 120m/min.
- 7.Temperature range -5°C to $+40^{\circ}\text{C}$.



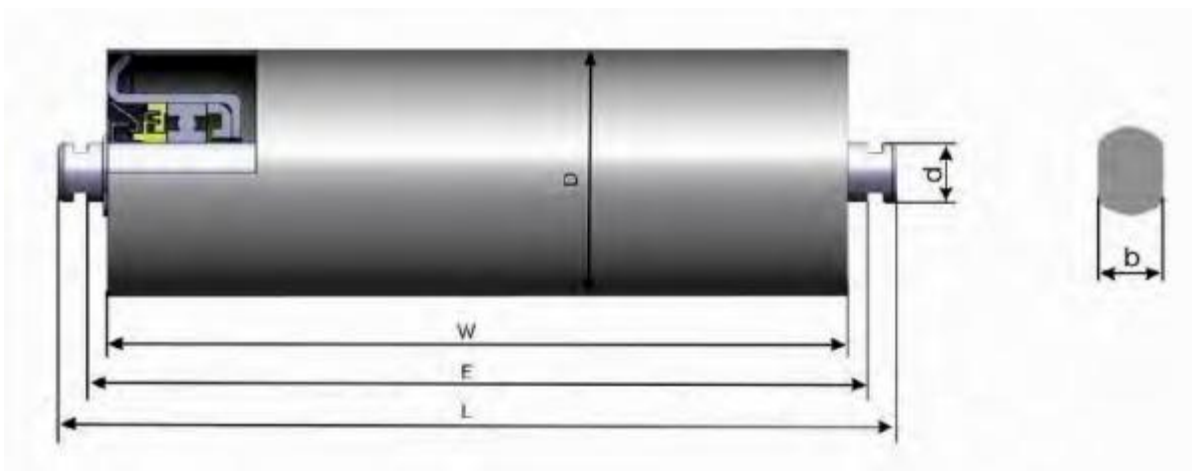
dia. × T	shaft dia.	female thread	spring loaded	flat milling	b × h	material
Φ38 × 1.2	Φ8/Φ10/Φ12/11hex	L=W+10	E=W+9	E=W+9	10 × 11	steel, stainless steel
Φ50 × 1.5	Φ8/Φ10/Φ12/11hex	L=W+10	E=W+9	E=W+9	10 × 11	steel, stainless steel, aluminum alloy
Φ50 × 2.5	Φ8/Φ10/Φ12/11hex	L=W+10	E=W+9	E=W+9	10 × 11	PVC
Φ60 × 2	Φ10/Φ12/Φ15/11hex	L=W+10	E=W+9	E=W+9	12 × 11	steel, stainless steel, aluminum alloy
Φ80 × 3	Φ20	L=W+12	E=W+11	E=W+11	16 × 15	steel



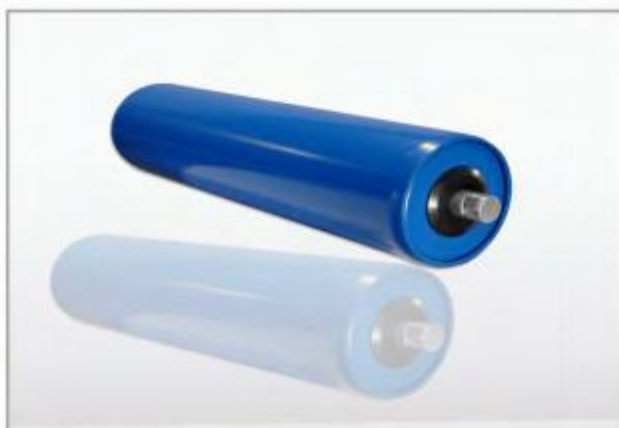
R1700 Series

Bulk Handling Roller

1. Mainly applied as belt supporting roller of bulk in mining or dock, also could be applied in hard environment of timber processing or outdoor and rainy condition .
2. Adopt labyrinth sealed structure, form a complex, curing and matched labyrinth channel between inside and outside sealing parts, well water proof and dust proof.
3. Meet the requirement of MT821 about the supporting roller.
4. Temperature range -10°C to $+40^{\circ}\text{C}$.



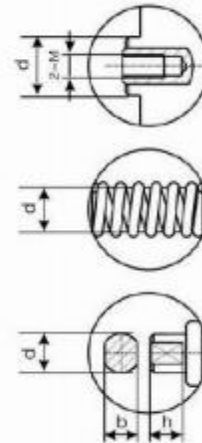
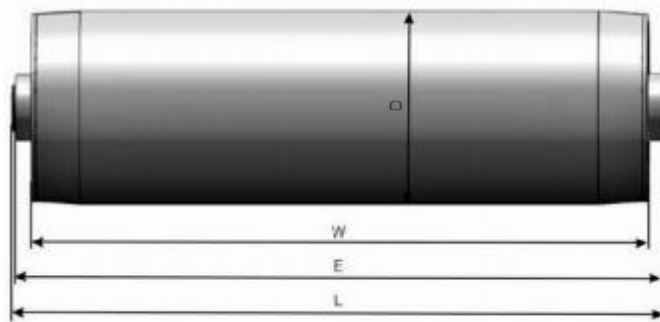
dia. ×T	shaft dia.	flat milling	b×h	material	surface treatment
Φ60×2	Φ15	E=W+10 L=W+28	12×10	steel	zinc-plated, paint or powder coating
Φ76×3	Φ20	E=W+10 L=W+28	14×6	steel	
Φ89×3/4	Φ20	E=W+10 L=W+28	14×6	steel	
Φ108×3.5	Φ25	E=W+10 L=W+34	18×8	steel	
Φ133×3.5	Φ25	E=W+10 L=W+34	18×8	steel	
Φ159×4	Φ30	E=W+10 L=W+34	22×8	steel	



R1800 Series

Medium/Heavy Duty Conveyor Roller

1. Precision ball bearing is fixed in the steel housing, tight and durable, it has heavier load capacity than polymer bearing housing.
2. The requirement of working environment is not high, it can work well both in high and low temperature.
3. Complete series of diameter, wide range of load capacity.
4. Temperature range -20°C to $+80^{\circ}\text{C}$.



dia. × T	shaft dia.	female thread	spring loaded	flat milling	b × h	material
Φ25 × 1.0	Φ8	L=W+11	E=W+9	/	/	steel, stainless steel, aluminum alloy
Φ38 × 1.2	Φ12	L=W+11	E=W+9	E=W+9	10 × 10	steel, stainless steel
Φ38 × 1.5	Φ12	L=W+11	E=W+9	E=W+9	10 × 10	aluminum alloy
Φ50 × 1.5	Φ12/Φ15	L=W+11	E=W+9	E=W+9	10 × 10	steel, stainless steel, aluminum alloy
Φ60 × 2	Φ12/Φ15	L=W+11	E=W+10	E=W+9	10 × 10	steel, stainless steel, aluminum alloy
Φ76 × 3	Φ15	L=W+12	E=W+10	E=W+10	12 × 10	steel, stainless steel, aluminum alloy
Φ76 × 4	Φ15	L=W+12	E=W+10	E=W+10	12 × 10	steel
Φ80 × 2	Φ20	L=W+12	E=W+10	E=W+10	16 × 14	steel
Φ80 × 3	Φ20	L=W+12	E=W+10	E=W+10	16 × 14	steel
Φ80 × 4	Φ20	L=W+12	E=W+10	E=W+10	16 × 14	aluminum alloy
Φ89 × 3	Φ20	L=W+12	E=W+10	E=W+10	16 × 14	steel
Φ89 × 4	Φ20	L=W+12	E=W+10	E=W+10	16 × 14	steel





Driven Convey Solution

Drive convey could make the goods conveyed in accurate speed, steadily and reliably. According to the driving method, it could classified as "belt convey" and " chain convey".

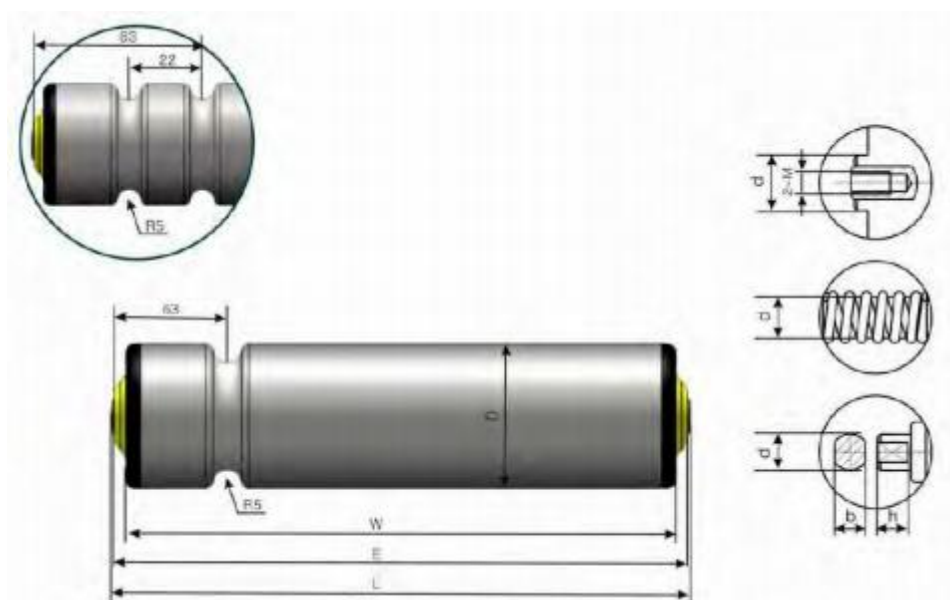
Belt Drive: steady running, low noise, low in environmental pollution, high speed allowed, but could not work in oiled place .

Chain Drive: large load capacity, easy arrangement, strong environmental adaptation, could work in the place with oil and water frequently touching, and with high temperature, but the chain is easy to be abraded in the dusty environment, loud noise in high speed.

R2230/R2240 Sereis

Single/Double Grooved Roller

1. Compared with chain drive, belt drive has the advantage of high speed and low noise, it is widely applied in light or medium box-typed delivery.
2. Precision ball bearing, polymer bearing housing and end cap form the bearing unit which is very important. It is not only for good looking, but also further more for the smooth and quiet running.
3. The end cap of roller resists dust and water splash well in working environment.
4. Except standard type, the position and number of grooves could be customized.
5. Suitable in high speed application. Speed could vary according to diameter and length of roller, max speed up to 120m/min.
6. Temperature range -5°C to $+40^{\circ}\text{C}$.



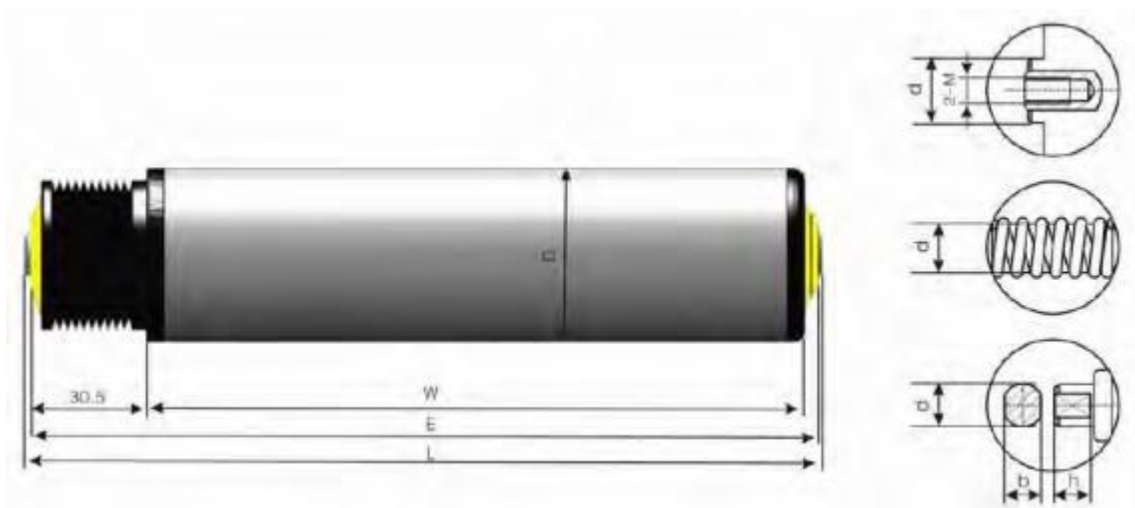
dia. × T	shaft dia.	female thread	spring loaded	flat milling	b × h	material
Φ38 × 1.2	Φ12/11hex	L=W+11	E=W+9	E=W+9	10 × 10	steel, stainless steel
Φ50 × 1.5	Φ12	L=W+11	E=W+9	E=W+9	10 × 10	steel, stainless steel
Φ60 × 2	Φ12	L=W+11	E=W+9	E=W+9	10 × 10	steel, stainless steel



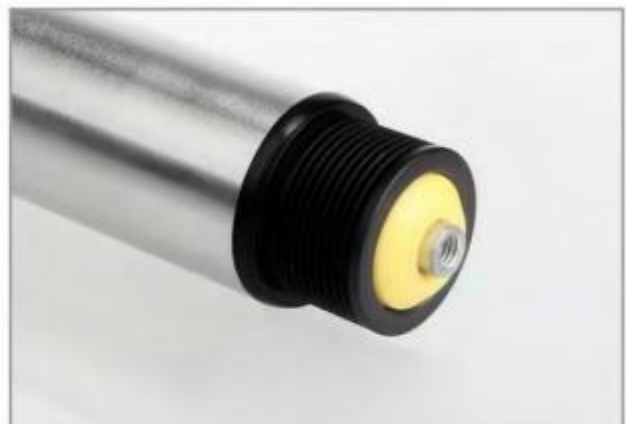
R2250 Series

Poly-V Pulley Roller

1. The assembly of poly-vee pulley at the end of tube make it separate between drive space and convey space, makes convey more smoothly and has the features like high speed and low noise .
2. Precision ball bearing, polymer bearing housing and end cap form the bearing unit which is very important. It is not only for good looking, but also further more for the smooth and quiet running.
3. The end cap of roller resists dust and water splash well in working environment.
4. PJ series of poly-vee belt, pitch 2.34mm, 9 grooves, ISO9982 .
5. Different roller pitch (center distance between rollers) requires different type of poly-vee belt.
6. Suitable in high speed application . Speed could vary according to diameter and length of roller, max speed up to 120m/min .
7. Temperature range -5°C to $+40^{\circ}\text{C}$.



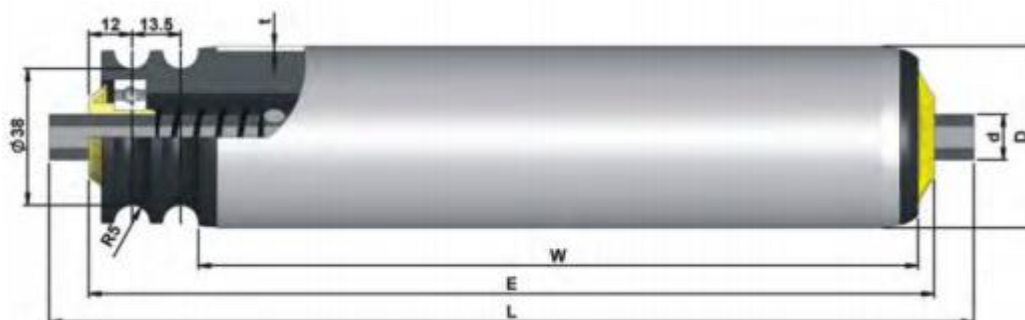
dia. × T	shaft dia.	female thread	spring loaded	material
Φ38 × 1.2	Φ12/11hex	E=W+37	E=W+35	steel, stainless steel
Φ38 × 1.5	Φ12/11hex	E=W+37	E=W+35	aluminum alloy
Φ50 × 1.5	Φ12/Φ15/11hex	E=W+37	E=W+35	steel, stainless steel, aluminum alloy
Φ60 × 2	Φ12/Φ15/11hex	E=W+37	E=W+35	steel, stainless steel, aluminum alloy



R2260 Series

O-Belt Pulley Roller

1. Polymer "O-belt" pulley fixed at the end of roller, makes it separate between drive space and convey space, so as to avoid the interference between "O-belt" and conveying goods.
2. Precision ball bearing, polymer bearing housing and end cap form the bearing unit which is very important. It is not only for good looking, but also further more for the smooth and quiet running.
3. The end cap of roller resists dust and water splash well in working environment.
4. Because it is not grooving on the tube, the tube will not have any distortion, and the roller will run more smoothly.
5. Temperature range -5°C to $+40^{\circ}\text{C}$.



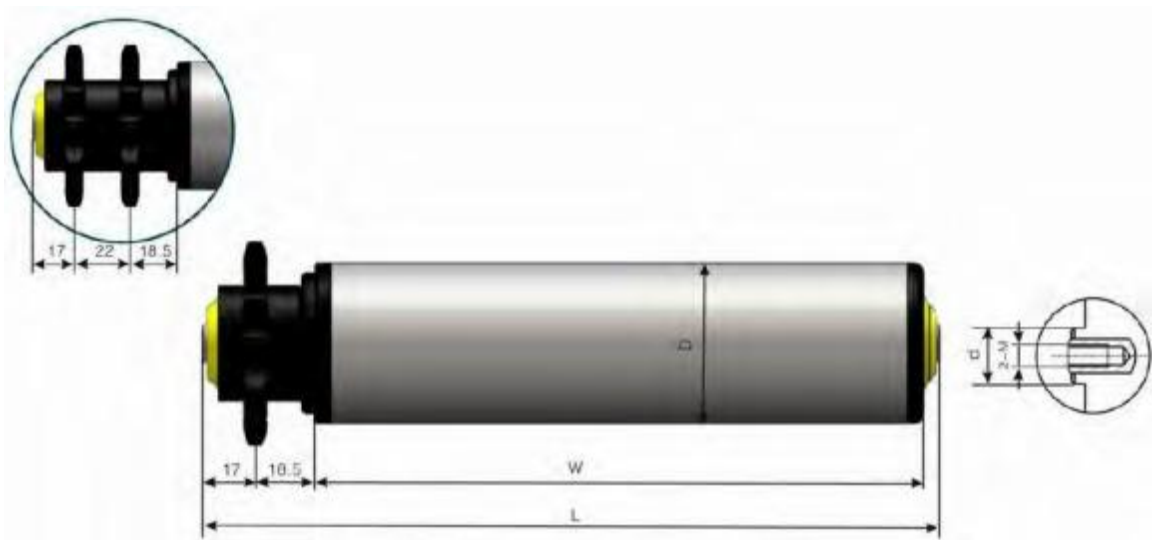
dia. × T	shaft dia.	female thread	spring loaded	material
Φ38 × 1.2	Φ12/11hex	E=W+37	E=W+35	steel, stainless steel
Φ38 × 1.5	Φ12/11hex	E=W+37	E=W+35	aluminum alloy
Φ50 × 1.5	Φ12/Φ15/11hex	E=W+37	E=W+35	steel, stainless steel, aluminum alloy
Φ60 × 2	Φ12/Φ15/11hex	E=W+37	E=W+35	steel, stainless steel, aluminum alloy



R2214/R2224 Series

Polymer Single/Double Sprocket Roller

1. Compare to traditional steel sprocket, adopts high performance polyamide sprocket as the driving element, the operating noise is relative lower.
2. Precision ball bearing, polymer bearing housing and end cap form the bearing unit which is very important. It is not only for good looking, but also further more for the smooth and quiet running.
3. The end cap of roller resists dust and water splash well in working environment.
4. Normally the weight of convey goods is no more than 150kg.
5. Temperature range -5°C to $+40^{\circ}\text{C}$.



dia. × T	shaft dia.	female thread		sprocket	material
		single sprocket	double sprocket		
$\Phi 50 \times 1.5$	$\Phi 12/\Phi 15$	$L=W+41$	$L=W+63$	08B14T	steel, stainless steel, aluminum alloy
$\Phi 50 \times 2.5$	$\Phi 12/\Phi 15$	$L=W+41$	$L=W+63$	08B14T	PVC
$\Phi 60 \times 2$	$\Phi 12/\Phi 15$	$L=W+41$	$L=W+63$	08B14T	steel, stainless steel, aluminum alloy



R2411/R2421 Series

Steel Single/Double Sprocket Roller With Polymer Bearing Housing

1. Steel sprocket welded with tube, make it capable to transmit higher torque, and meet the request of transportation of medium or heavy duty load.
2. Precision ball bearing polymer housing, end cap form the bearing unit which is very important. It is not only for good looking, but also further more for the smooth and quiet running.
3. The end cap of roller resists dust and water splash well in working environment.
4. Temperature range -5°C to $+40^{\circ}\text{C}$.



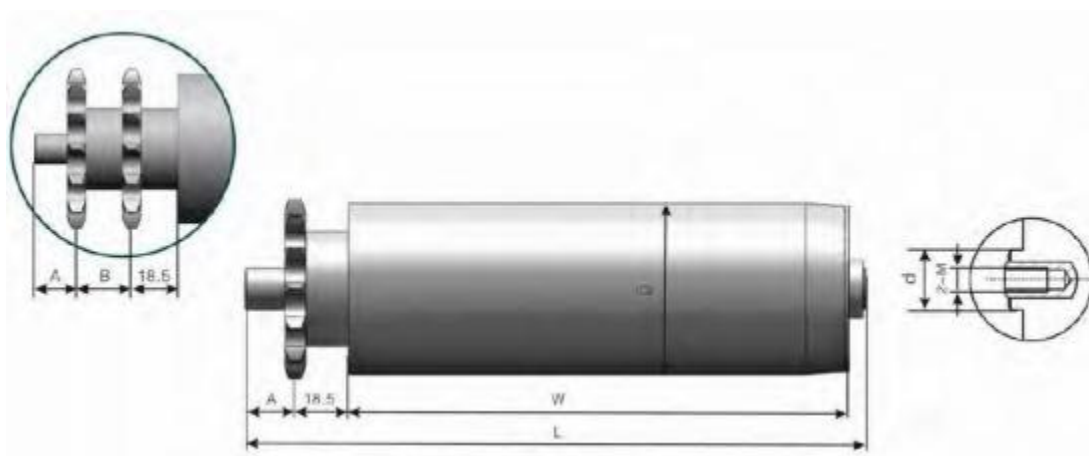
dia. × T	shaft dia.	female thread		sprocket	material
		single sprocket	double sprocket		
$\Phi 50 \times 1.5$	$\Phi 12/\Phi 15$	$L=W+41$	$L=W+63$	08B14T	steel, stainless steel
$\Phi 60 \times 2$	$\Phi 12/\Phi 15$	$L=W+41$	$L=W+63$	08B14T	steel, stainless steel
$\Phi 80 \times 3$	$\Phi 20$	$L=W+37$	$L=W+63$	10B15T	steel



R2311/R2321

Steel Single/Double Sprocket Roller With Steel Bearing Housing

1. Steel sprocket welded with tube, make it capable to transmit higher torque, and meet the request of transportation of heavy duty load pallet.
2. Precision ball bearing is fixed by impact in the steel housing, tight and durable, it could bear heavier duty than polymer bearing unit.
3. The requirement of working environment is not high, it can work well both in high and low temperature.
4. The end cap of roller resists dust and water splash well in working environment.
5. Temperature range -20°C to $+40^{\circ}\text{C}$.



dia. × T	shaft dia.	female thread		Sprocket	A	B	material
		single sprocket	double sprocket				
Φ38 × 1.2	Φ12	L=W+41	L=W+63	08B11T	17	22	steel, stainless steel
Φ50 × 1.5	Φ12/Φ15	L=W+41	L=W+63	08B14T	17	22	steel, stainless steel
Φ60 × 2	Φ12/Φ15	L=W+41	L=W+63	08B14T	17	22	steel, stainless steel
Φ76 × 3 (×4)	Φ15/Φ20	L=W+45	L=W+70	10A13T	20	25	steel, stainless steel
Φ80 × 3	Φ20	L=W+45	L=W+70	10B15T	20	25	steel
Φ89 × 3 (×4)	Φ20	L=W+45	L=W+70	10B15T	20	25	steel





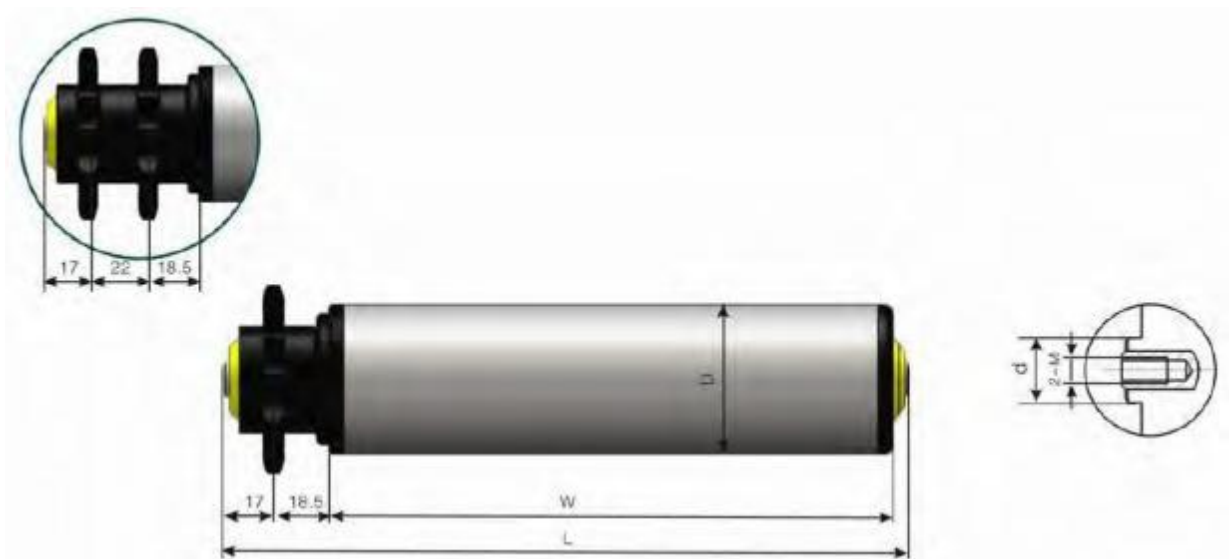
Accumulating Convey Solution

Accumulation convey is also called piled convey. It has not only the function of common drive convey, but also the feature that goods stop and pile up on the conveyor line in the condition of driving element still operating, while the operating resistance is not obviously increased. In normal conveying, the accumulation device transmit the moment of force. But when goods stopped and piled up, the operating moment of resistance exceeds the roller's definitive working moment of force, the accumulation sleeve or friction slice slips, roller and driving element are in the condition of flexible connection. It appears that rollers under the goods stop running, only the driving element is still running.

R3214/R3224 Series

Polymer Single/Double Sprocket Accumulating Roller

1. Typical telescope-feed accumulation, the accumulation power is depended on the load and automatically adjustable in some scale .
2. Precision ball bearing, polymer bearing housing and end cap form the bearing unit which is very important. It is not only for good looking, but also further more for the smooth and quiet running.
3. The end cap of roller resists dust and water splash well in working environment.
4. Compare to traditional steel sprocket, adopts high performance polyamide sprocket as the driving element, the operating noise is relative lower.
5. Normally the weight of convey goods is 10~30kg.
6. Temperature range -5°C to $+40^{\circ}\text{C}$.



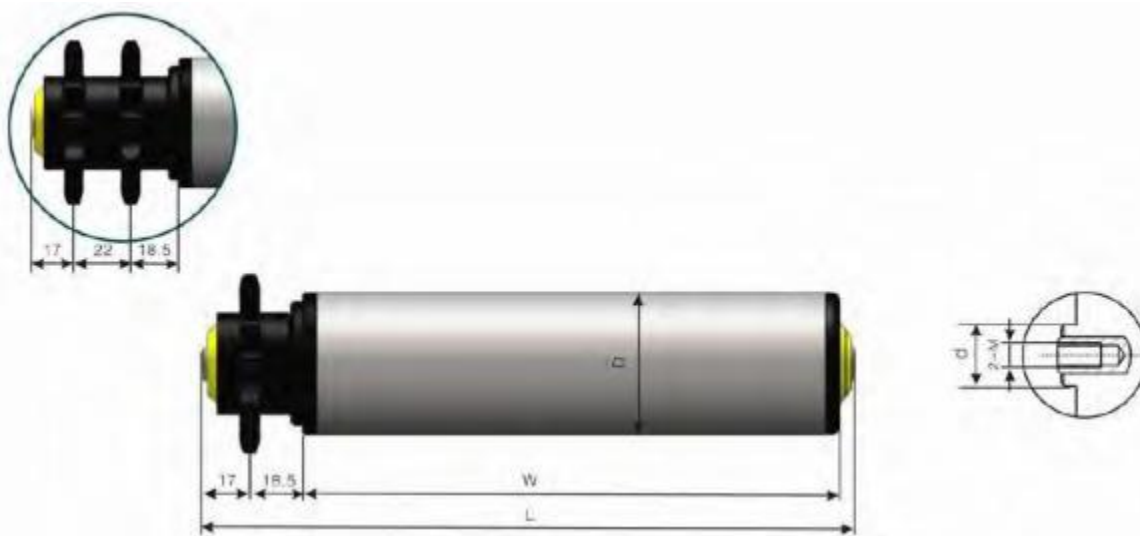
dia. × T	shaft dia.	female thread		sprocket	material
		single sprocket	double sprocket		
Φ50 × 1.5	Φ12/Φ15	L=W+41	L=W+63	08B14T	steel, stainless steel
Φ50 × 2.5	Φ12/Φ15	L=W+41	L=W+63	08B14T	PVC
Φ60 × 2.0	Φ12/Φ15	L=W+41	L=W+63	08B14T	steel, stainless steel



R3211/R3221 Series

Steel Single/Double Sprocket Accumulating Roller

1. Typical telescope-feed accumulation, the accumulation power is depended on the load and automatically adjustable in some scale .
2. Precision ball bearing, polymer bearing housing and end cap form the bearing unit which is very important. It is not only for good looking, but also further more for the smooth and quiet running.
3. The end cap of roller resists dust and water splash well in working environment.
4. Compare to traditional steel sprocket, adopts high performance polyamide sprocket as the driving element, the operating noise is relative lower.
5. Normally the weight of convey goods is 10~30kg.
6. Temperature range -5℃ to +40℃ .



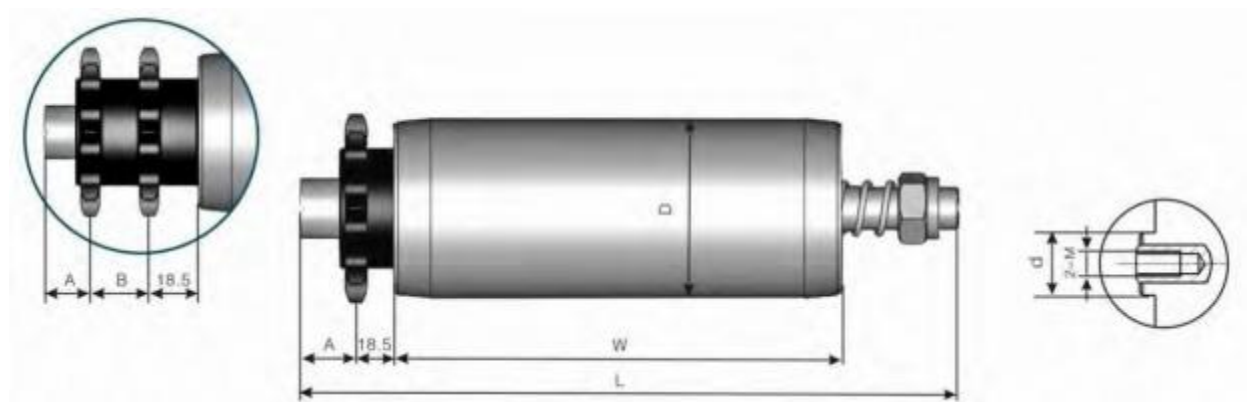
dia. × T	shaft dia.	female thread		sprocket	material
		single sprocket	double sprocket		
Φ50 × 1.5	Φ12/Φ15	L=W+41	L=W+63	08B14T	steel, stainless steel
Φ60 × 2.0	Φ12/Φ15	L=W+41	L=W+63	08B14T	steel, stainless steel



R3816/R3826 Series

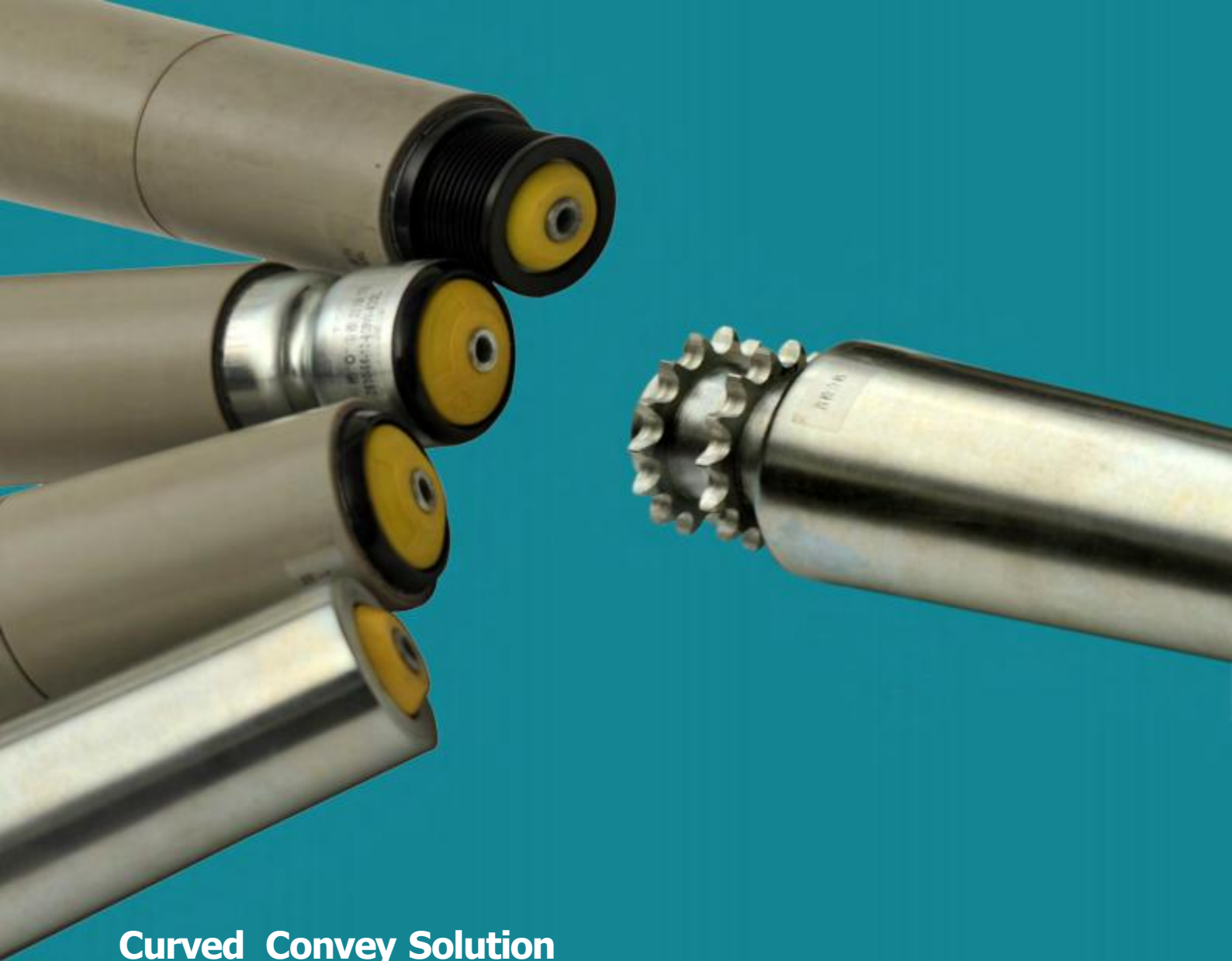
Steel Single/Double Sprocket Adjustable Accumulating Roller

- 1.The accumulation power could be adjusted by the nut at the end, high flexibility.
- 2.The precision ball bearing is fixed by impact in the steel bearing housing, tight and durable .
- 3.Friction slice is made of special material greatly improve its abrasion resistance, and its life time is greatly improved.
- 4.Normally the weight of convey goods is 10~80kg.
- 5.Temperature range -5℃ to +80℃ .



dia. ×T	shaft dia.	female thread		sprocket	A	B	material
		single sprocket	double sprocket				
Φ50 × 1.5	Φ12	L=W+70	L=W+92	08B11T	17	22	steel, stainless steel
Φ60 × 2.0	Φ12/Φ15	L=W+70	L=W+92	08B14T	17	22	steel, stainless steel
Φ76 × 3.0	Φ20	L=W+78	L=W+103	10A13T	20	25	steel, stainless steel





Curved Convey Solution

Only tapered roller could insure the accurate convey of goods at the curve . The reason is different line speed on the surface of roller, the outer the higher line speed (angular speed keep unchanged) .

Installation of Tapered Roller

Its installation is different from other roller, the roller axis is installed in a certain angle ($\frac{1}{2}$ conical degree), while the roller surface keep horizontal.

Turn Radius

In theory, the generatrix extend line of tapered roller should join with the center of a circle of the round frame . By this way it could reach the ideal curve convey.

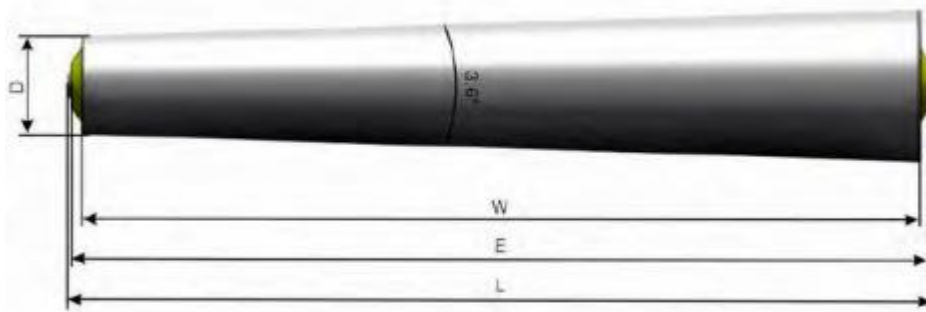
Recommendatory Curved Radius of Tapered Roller

Series	Taper (θ)	Small Dia. (D)	Turning Radius (R)
R1500	3.6°/Optional	50mm	790mm
R1600	3.6°	56mm	880mm
R2640	3.6°	56mm	820mm
R2650	3.6°	56mm	850mm
R2660	3.6°	56mm	850mm
R2624	3.6°	56mm	880mm
R2521	3.6°/Optional	50mm	790mm

R1500 Series

Gravity Tapered Roller

1. Tapered tube and steel bearing housing at both sides are welded reliably together, tight and durable which have more loading capacity than polymer bearing housing..
2. The requirement of working environment is not high, it can work well both in high and low temperature.
3. The end cap of roller resists dust and water splash well in working environment.
4. Standard conical degree is 3.6° , other degrees could be customized.
5. Normally the weight of convey goods is no more than 200kg.
6. Temperature range -10°C to $+80^\circ\text{C}$.



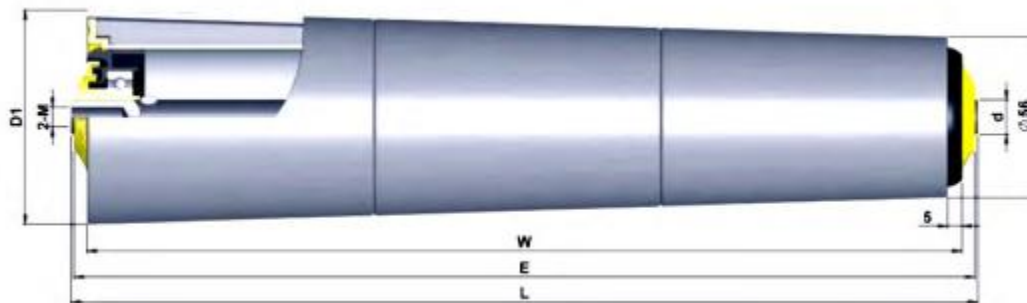
dia. × T	shaft dia.	female thread	spring loaded	flat milling	b × h	material
Φ50 × 1.5	Φ12	L = W + 11	E = W + 9	E = W + 9	10 × 10	steel, stainless steel
	Φ15	L = W + 11	E = W + 9	E = W + 9	12 × 10	steel, stainless steel



R1600 Series

Gravity Tapered Sleeve Roller

1. Based on the R1200 series, covered with polypropylene (PP) taper sleeve, abrasion resistance, low noise and shockproof.
2. Precision ball bearing, polymer bearing housing and end cap form the bearing unit which is very important. It is not only for good looking but also further more for the smooth and quiet running.
3. The end cap of roller resists dust and water splash well in working environment.
4. Light weight, easy start-up.
5. Normally the weight of convey goods is no more than 50kg.
6. Temperature range -5°C to $+40^{\circ}\text{C}$.



dia. × T	shaft dia.	female thread	spring loaded	material
Φ50 × 1.5	Φ12/Φ15/11hex	L=W+11	L=W+31	steel, zinc-plated, PP tapered sleeve

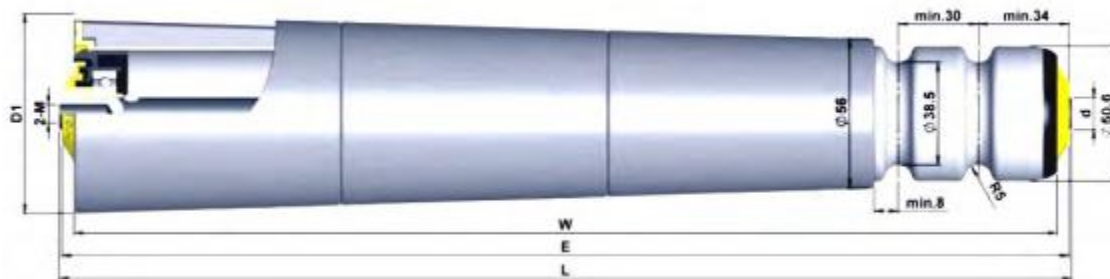
D1	conical degree	D2					
		W=200	W=300	W=400	W=500	W=600	W=700
Φ56	3.6°	Φ69	Φ74.5	Φ81	Φ88.5	Φ96	Φ102.5



R2640 Series

Grooved Tapered Sleeve Roller

1. Based on the R2240 series, covered with polypropylene (PP) tapered sleeve, abrasion resistance, low noise and shockproof.
2. Precision ball bearing, polymer bearing housing and end cap form the bearing unit which is very important. It is not only for good looking but also further more for the smooth and quiet running.
3. The end cap of roller resists dust and water splash well in working environment.
4. Light weight, easy start-up.
5. Except standard type, the position and number of grooves could be customized.
6. The load capacity of roller depends on the driving power of "O-belt" and the transmission structure (line shaft drive is higher than hook-ups). Reference data is normally no more than 30kg/pack.
7. Temperature range -5°C to $+40^{\circ}\text{C}$.



dia. × T	shaft dia.	female thread	spring loaded	material
Φ50 × 1.5	Φ12/Φ15/11hex	L=W+11	L=W+31	steel, zinc-plated, PP tapered sleeve

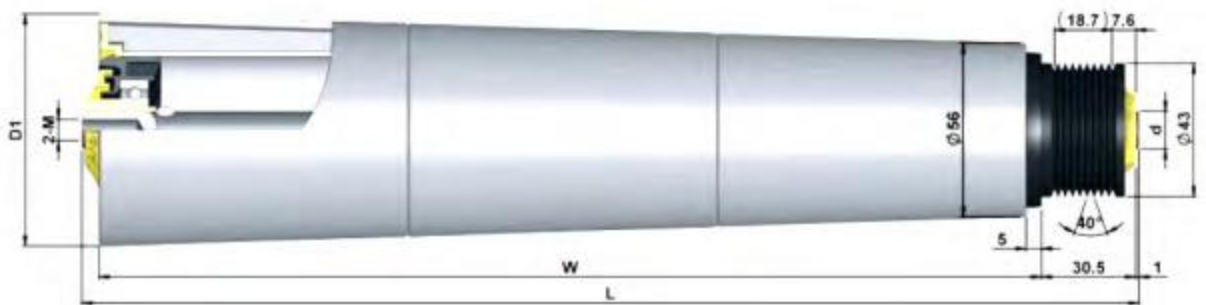
D1	conical degree	D2					
		W=200	W=300	W=400	W=500	W=600	W=700
Φ56	3.6°	Φ69	Φ74.5	Φ81	Φ88.5	Φ96	Φ102.5



R2650 Sereis

Poly-V Pulley Tapered Sleeve Roller

1. Based on the R2250 series, covered with polypropylene (PP) taper sleeve, abrasion resistance, low noise, shockproof.
2. The assembly of poly-vee pulley at the end of tube make it separate between drive space and convey space, more smooth convey.
3. Precision ball bearing, polymer bearing housing and end cap form the bearing unit which is very important. It is not only for good looking but also further more for the smooth and quiet running.
4. The end cap of roller resists dust and water splash well in working environment.
5. PJ series of poly-vee belt, pitch 2.34mm, 9 grooves, ISO9982 .
6. Load capacity is depended on the drive arrangement and poly-vee belt model, usually the weight of convey goods is no more than 30kg.
7. Light weight, easy start-up.
8. Temperature range -5°C to $+40^{\circ}\text{C}$.



dia. ×T	shaft dia.	female thread	spring loaded	material
Φ50×1.5	Φ12/Φ15/11hex	L=W+36	L=W+57	steel, zinc-plated, PP tapered sleeve

D1	conical degree	D2					
		W=200	W=300	W=400	W=500	W=600	W=700
Φ56	3.6°	Φ69	Φ74.5	Φ81	Φ88.5	Φ96	Φ102.5



R2660 Sereis

O-belt Pulley Tapered Sleeve Roller

1. Based on the R2260 series, covered with polypropylene (PP) taper sleeve, abrasion resistance, low noise, shockproof.
2. The assembly of O-belt pulley at the end of tube make it separate between drive space and convey space .
3. Precision ball bearing, polymer bearing housing and end cap form the bearing unit which is very important. It is not only for good looking but also further more for the smooth and quiet running.
4. The end cap of roller resists dust and water splash well in working environment.
5. Because it is not grooving on the tube, the tube will not have any distortion, and the roller will run more smoothly.
6. Load capacity is depended on the driving ability of O-belt, usually the weight of convey goods is no more than 30kg.
7. Temperature range -5°C to $+40^{\circ}\text{C}$.



dia. ×T	shaft dia.	female thread	spring loaded	material
Φ50×1.5	Φ12/Φ15/11hex	L=W+36	L=W+57	steel, zinc-plated, PP tapered sleeve

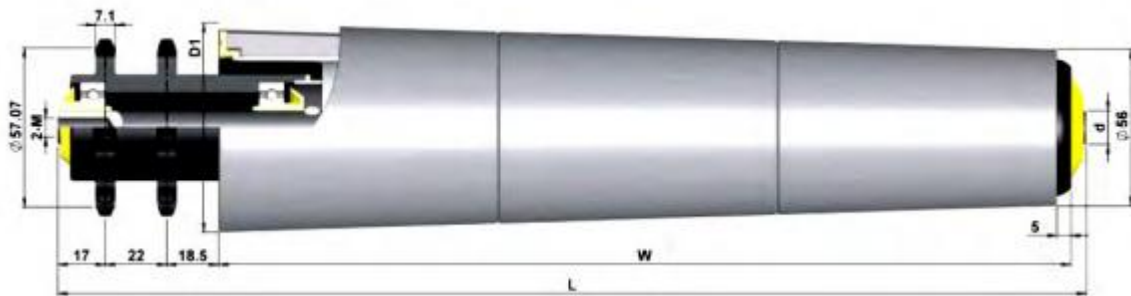
D1	conical degree	D2					
		W=200	W=300	W=400	W=500	W=600	W=700
Φ56	3.6°	Φ69	Φ74.5	Φ81	Φ88.5	Φ96	Φ102.5



R2624 Series

Polymer Sprocket Tapered Sleeve Roller

1. Based on the R2224 series, covered with polypropylene (PP) taper sleeve, abrasion resistance, low noise, shockproof.
2. Compare to traditional steel sprocket, adopts high performance polyamide sprocket as the driving element, the operating noise is relative lower.
3. Precision ball bearing, polymer bearing housing and end cap form the bearing unit which is very important. It is not only for good looking but also further more for the smooth and quiet running.
4. The end cap of roller resists dust and water splash well in working environment.
5. Angle between tapered roller (axis angle) is not recommended to exceed 5° to prevent excessive wear of sprocket and chain.
6. Normally the weight of convey goods is no more than 0kg.
7. Temperature range -5℃ to +40℃.



dia. ×T	shaft dia.	female thread	spring loaded	sprocket	material
Φ50×1.5	Φ12/Φ15/11hex	L=W+36	L=W+57	08B14T	steel, zinc-plated, PP tapered sleeve

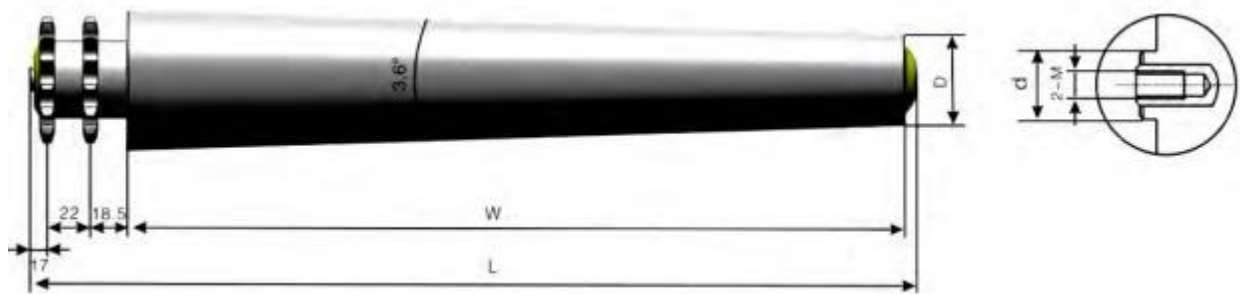
D1	conical degree	D2					
		W=200	W=300	W=400	W=500	W=600	W=700
Φ56	3.6°	Φ69	Φ74.5	Φ81	Φ88.5	Φ96	Φ102.5



R2621 Series

Steel Sprocket Tapered Roller

1. Steel sprocket welded with tube, make it capable to transmit higher torque, and meet the request of transportation of heavy duty load.
2. The requirement of working environment is not high, it can work well both in high and low temperature.
3. The end cap of roller resists dust and water splash well in working environment.
4. Standard conical degree is 3.6° , other degrees could be customized.
5. For better function of curve running, its sprocket teeth thickness is smaller than standard data.
6. Normally the weight of convey goods is no more than 200kg.
7. Temperature range -10°C to $+80^\circ\text{C}$.



dia. × T	shaft dia.	female thread	sprocket	material
Φ38 × 1.2	Φ12/11hex	L=W+62	08B14T	steel, zinc-plated, PP tapered sleeve
Φ42 × 1.5	Φ12/11hex	L=W+62	08B14T	
Φ50 × 1.5	Φ12/Φ15/11hex	L=W+62	08B14T	

D1	conical degree	D2					
		W=200	W=300	W=400	W=500	W=600	W=700
Φ38	3.6°	Φ50.6	Φ56.9	Φ63.2	Φ69.5	Φ75.8	Φ82.1
Φ42		Φ54.6	Φ60.9	Φ67.2	Φ73.5	Φ79.8	Φ86.1
Φ56		Φ62.6	Φ68.9	Φ75.2	Φ81.5	Φ87.8	Φ94.1



Belt Conveyor Pulley



Belt conveyor pulleys consist of carrying idler, driving pulleys, bent pulleys, snub pulleys, and takeup pulleys. As well as its high strength welding and precision processing technology, Longwei Automatic is dedicated to offering you a standardized, serialized, high strength, high quality belt conveyor pulley one-stop solution.

Driven Pulley

A rotating shaft driven pulley of the BCP-D series is used for the main components of the underneath driving belt conveyor.

Head/Tail Pulley

For both ends of belt conveyor, according to the different drive type and structure.

Bend Pulley/Takeup Pulley

To adjust the running deviation, tighten the belt, increase the driving roller angle, adopts BCP-R fixed shaft belt conveyor pulley or GR200 series roller. As the bending pulley and snub pulley, please consider the belt tension as well as lateral force.

Carrying Idler

Choose GR200 series conveyor roller (anti-static type) to support belts, simplify structures, reduce friction

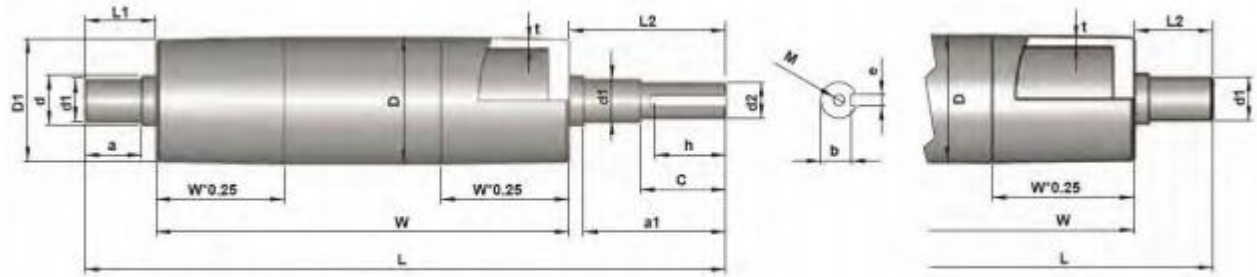
BCP-D Series

Rotating Shaft Driven Pulley



- An integral shaft using a thermal refining process.
- Special welding technology and equipment.
- New, highly reliable structure.

Dimensions (surface zinc-plated)

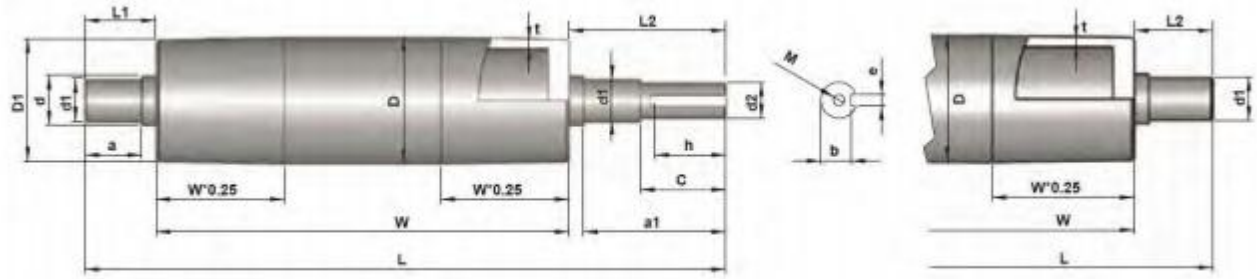


Specifications

Standard				Optional	Length Range		
Tube Dia. (D)	Tube Wall (t)	Shaft Dia.(d1)	Drum (D1)	Shaft Dia. (d1)	W	L	L1/L2
Φ59	4.5	Φ25	Φ58	Φ20	250 ~ 1300	≤1500	≤280
Φ75	4.5	Φ30	Φ74	Φ25	250 ~ 1300	≤1500	≤280
				Φ35			≤185
Φ87	4.5	Φ30	Φ85.6	Φ25	250 ~ 1300	≤1500	≤280
				Φ35			≤185
Φ100	6.0	Φ30	Φ98	Φ25	250 ~ 1400	≤1600	≤280
				Φ35			≤185
Φ112	6.0	Φ35	Φ110	Φ30	250 ~ 1400	≤1600	≤280
				Φ40			≤185, when ≥Φ40, ≤140
Φ119	6.0	Φ35	Φ117	Φ40	250 ~ 1400	≤1600	≤185, when ≥Φ40, ≤140
Φ130	6.5	Φ35	Φ127	Φ40	70 ~ 1800	≤2400	≤300
Φ137	6.5	Φ35	Φ135	Φ40	70 ~ 1800	≤2400	≤300
Φ156	6.5	Φ35	Φ153	Φ40	70 ~ 1800	≤2400	≤300
Φ176	6.0	Φ40	Φ173	Φ45	70 ~ 1800	≤2400	≤300
Φ200	6.5	Φ45	Φ196	Φ50/55	70 ~ 1800	≤2400	≤300
Φ216	8.5	Φ50	Φ212	Φ55	70 ~ 1800	≤2400	≤300

Note: straight roller is available, please contact us if there is dynamic balance requirement.

Dimensions (PU coating)



Specifications

Standard				Optional	Length Range		
Coated Dia. (D)	PU Layer (t)	Shaft Dia.(d1)	Drum (D1)	Shaft Dia. (d1)	W	L	L1/L2
Φ87	6.0	Φ30	Φ85.6	Φ25	250 ~ 1400	≤1600	≤280
				Φ35			≤185
Φ100	6.5	Φ30	Φ98	Φ25	250 ~ 1400	≤1600	≤280
				Φ35			≤185
Φ112	6.0	Φ35	Φ110	Φ30	250 ~ 1400	≤1600	≤280
				Φ40			≤185, when ≥Φ40, ≤140
Φ122	5.0	Φ35	Φ120	Φ40	250 ~ 1400	≤1600	≤185, when ≥Φ40, ≤140
Φ130	5.5	Φ35	Φ127	Φ40	250 ~ 1400	≤1600	≤185, when ≥Φ40, ≤140
Φ156	6.0	Φ35	Φ153	Φ40	70 ~ 1800	≤2400	≤300
Φ176	6.0	Φ40	Φ173	Φ45	70 ~ 1800	≤2400	≤300
Φ202	6.5	Φ45	Φ199	Φ50/55	70 ~ 1800	≤2400	≤300
Φ216	7.5	Φ50	Φ212	Φ55	70 ~ 1800	≤2400	≤300

Note:

Straight roller is available .

Coating material: PU (yellow color)

please contact us out of the aboved length range .

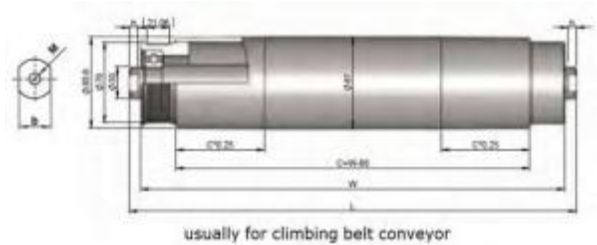
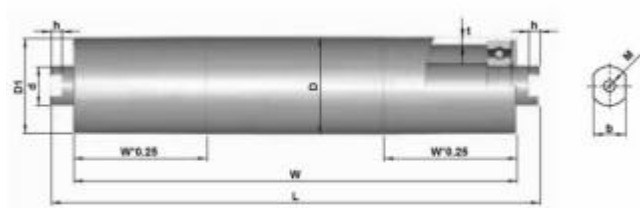
BCP-R Series

Fixed Shaft Driven Pulley



- Built-in precision ball bearing.
- Precision processing, smooth rotation.
- High load capacity, reliable and durable.

Dimensions (surface zinc-plated)



Specifications

Standard					Length Range	Note
Tube Dia. (D)	Tube Wall (t)	Shaft Dia.(d1)	Bearing	Drum. (D1)	W	
Φ51	3.0	Φ20	6204	/	450 ~ 1300	
Φ59	4.5	Φ25	6205	Φ58	70 ~ 1300	
Φ69	6.0	Φ30	6206	Φ68	70 ~ 1300	
Φ75	4.5	Φ25	6005	Φ74	70 ~ 1300	
		Φ30	6008			
Φ79	4.5	Φ25	6005	Φ77.6	70 ~ 1300	
		Φ30	6306			
Φ87	4.5	Φ25	6205	Φ85.6	70 ~ 1300	
		Φ35	6307			
Φ100	6.0	Φ30	6306	Φ98	70 ~ 1800	
		Φ40	6308			
Φ112	6.0	Φ30	6306	Φ110	70 ~ 1800	
		Φ35	6307			
Φ119	6.0	Φ30	6306	Φ117	70 ~ 1800	
		Φ40	6408			
Φ87	4.5	Φ30	6206	Φ85.6	180 ~ 1300	steel poly-v ulley

Note: straight roller is available, please contact us if there is dynamic balance requirement.

BR50/60 Series

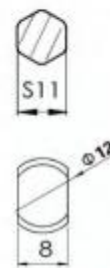
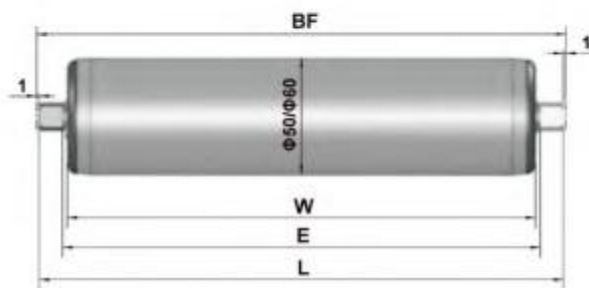
Internal Brake Roller (Φ50/60)



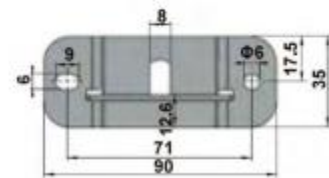
- Suitable for flat and hard bottom package such as carton or workbin, etc .

Dimensions

BR50/60



Bracket 50/60-35



bracket: 2 pcs, bolt & nut: 4 sets

Model	dia. ×T	L Min	L Max			
BR50/AA-S11	50×1.5	145	1250	BF=E	E=L-20	W=L-24
BR50/AA-12	50×1.5	145	1250	BF=L+2	E=L-20	W=L-24
BR60/AA-12	60×1.5	145	1300	BF=L+2	E=L-20	W=L-24

Specifications

Model	dia. ×T	Shaft	Weight Range	Tube Material	
				steel, galvanized	Stainless Steel (304)
BR50/AA-S11	50×1.5	hex 11	10-60 kgs	✓	✓
BR50/AA-12	50×1.5	flat milled b/h=8/12	10-60 kgs	✓	✓
BR60/AA-12	60×1.5	flat milled b/h=8/12	20-100 kgs	✓	

Note: BR50/AA with 2mm PU sleeve is available .

Example of Model No .

BR	50	/	AA	-	S11	-	Z	-	500
Model	OD				shaft end		tube material		L length(mm)
BR	50				S11: hex11		U: galvanized steel with PU sleeve		
	60				12: flat milled		Z: galvanized steel		
							S: stainless steel 304		

BR80 Series

Internal Brake Roller (Φ80)

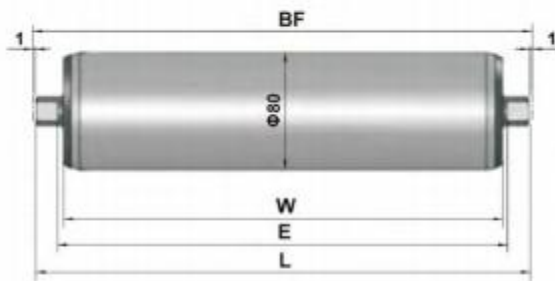


- Suitable for wooden pallet or plastic pallet.

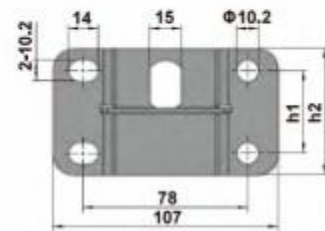


Dimensions

BR80



Bracket



bracket: 2 pcs, bolt & nut: 8 sets

Model	h1	h2
80-55	30.3	55
80-60	39	60

Model	dia. × T	L Min	L Max			
BR80/AA	80 × 2.5	265	1350	BF=L+2	E=L-30	W=L-38
BR80/BA	80 × 2.5	340	1350	BF=L+2	E=L-30	W=L-38
BR80/AS	80 × 2.5	265	1350	BF=L+2	E=L-30	W=L-38

Specifications

Model	dia. × T	Shaft	Weight Range	Tube Material	
				steel, galvanized	steel, galvanized, knurled
BR80/AA	80 × 2.5	flat milled b/h=15/20	200-1000 kgs	✓	✓
BR80/BA	80 × 2.5	flat milled b/h=15/20	1000-1500 kgs	✓	✓
BR80/AS	80 × 2.5	flat milled b/h=15/20	200-1000 kgs	✓	✓

Note: BR80/AS is suitable for last-in, first-out push-back slide.

Example of Model No.

BR	80	/ A	A-	20	-	Z	-	1235
Model	OD	goods weight	direction	shaft end		tube material		L length(mm)
BR	80	—A: 200-1000kgs	—A: standard	—20: flat milled		—Z: galvanized steel		
		—B: 100-1500kgs	—B: single			—K: knurled steel		

BE120 Series

EXternal Brake Roller (Φ120)

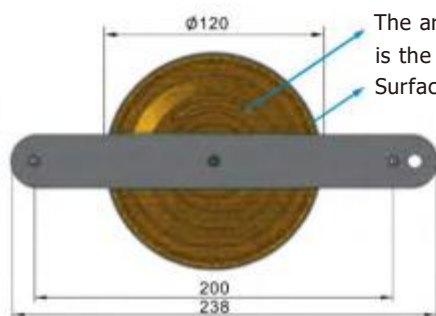


- Suitable for flat and hard bottom package such as carton or workbin, etc .



Dimensions

BE120

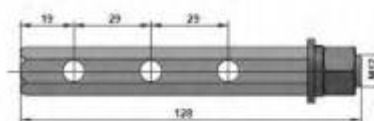


⚠ If the installation direction is wrong, there will be risk of goods out of the slide and brake roller be damaged.

Specifications

Model	Weight Range
BE120/AA	200-500kg
BE120/BA	500-1000kg

Accessories



hexagonal tie bar: 2 pcs, headless drill screw: 6 pcs
tension spring: 6 pcs, nut: 8 pcs, washer: 4 pcs

Example of Model No .

BE	120	/	A	A
Model	OD		goods weight	rotation direction
- BE	- 120		- A: 200-500kgs	- A: standard
			- B: 500-1000kgs	

BT120 Series

External Series Brake Roller (Φ120)

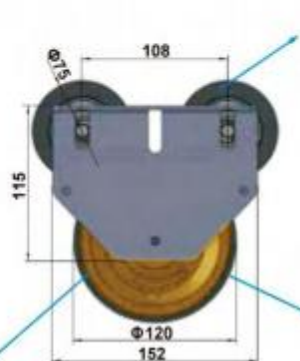
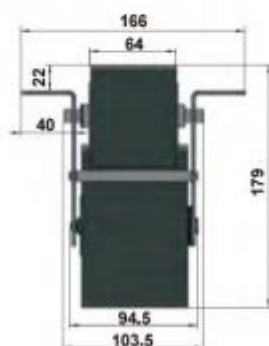


- Suitable for flat and hard bottom package such as carton or workbin, etc .



Dimensions

BT120



Specifications

Model	Weight Range
BT120/AA	200-500kg
BT120/BA	500-1000kg

surface material: PU

The arrow direction on the end cap is the brake roller rotation direction .

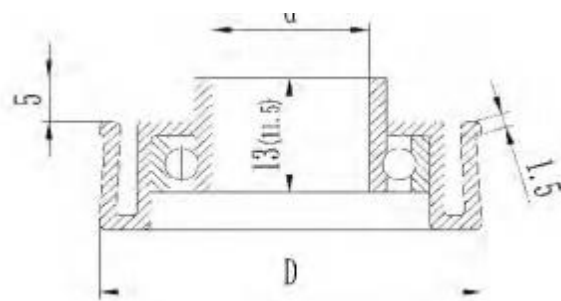
⚠ If the installation direction is wrong, there will be risk of goods out of the slide and brake roller be damaged.

Example of Model No .

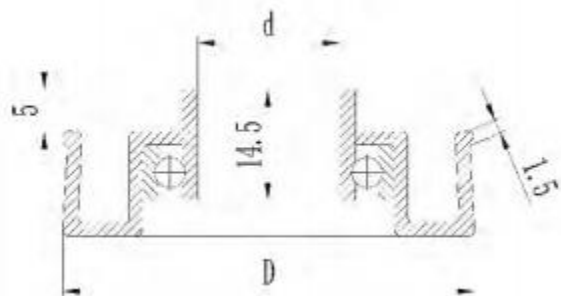
BT	120	/	A	A
Model	OD		goods weight	rotation direction
- BT	- 120		- A: 200-500kgs	- A: standard
			- B: 500-1000kgs	

Roller Components

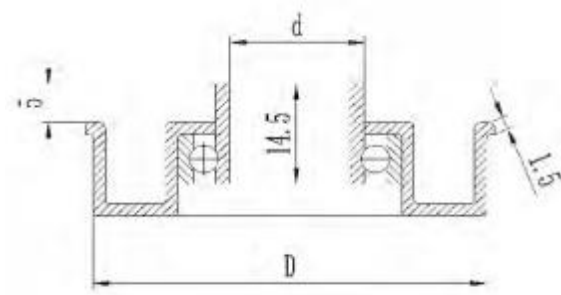
Steel Roller Bearing Assembly



tube out diameter	tube thickness	shaft diameter	material
Φ25	1.0/1.2	Φ8	carbon steel, stainless steel
Φ32	1.0/1.2	Φ8	carbon steel, stainless steel
Φ38	1.2/1.5/2.0	Φ12	carbon steel, stainless steel
Φ42	1.2/1.5/2.0	Φ12	carbon steel, stainless steel

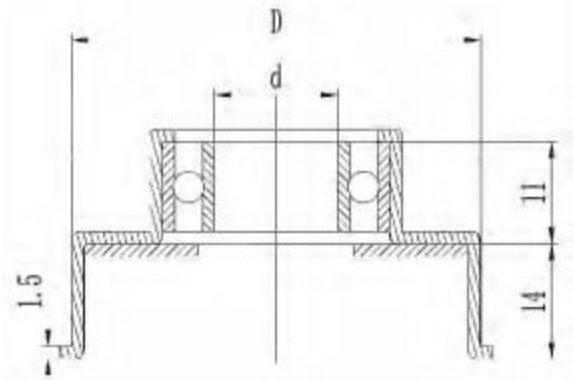


tube out diameter	tube thickness	shaft diameter	material
Φ50	1.2/1.5/2.0	Φ12/Φ15	carbon steel, stainless steel
Φ57	1.5/2.0/2.5	Φ12/Φ15	carbon steel, stainless steel



tube out diameter	tube thickness	shaft diameter	material
Φ60	1.5/2.0/2.5/3.0	Φ12/Φ15/Φ20	carbon steel, stainless steel
Φ76	2.0/2.5/3.0/3.5	Φ12/Φ15/Φ20	carbon steel, stainless steel
Φ89	2.5/3.0/3.5/4.0	Φ15/Φ20/Φ25	carbon steel, stainless steel

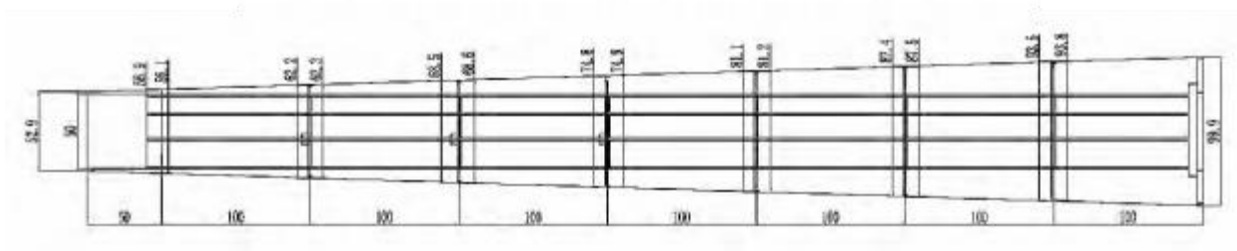
Steel Accumulating Roller Bearing Assembly



tube out diameter	tube thickness	shaft diameter	material
Φ50	1.2/1.5/2.0	Φ12/Φ15	carbon steel, stainless steel
Φ60	1.5/2.0/2.5	Φ12/Φ15	carbon steel, stainless steel
Φ76	2.0/2.5/3.0	Φ15/Φ20	carbon steel, stainless steel

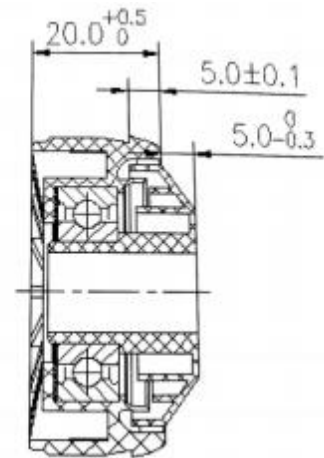
Roller Components

Φ50 Tapered Sleeve



Roller Components

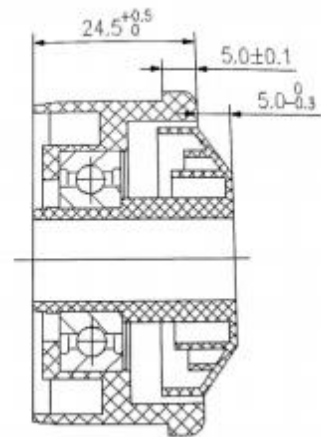
Polymer Roller Bearing Assembly-Binding-off Type



tube out diameter	tube thickness	shaft diameter	material
Φ38	1.2/1.5	Φ12/hex 11	nylon + PP
Φ50	1.2/1.5/2.0	Φ12/Φ15/hex 11	nylon + PP
Φ60	1.2/1.5/2.0	Φ12/Φ15/hex 11	nylon + PP
Φ76	2.0/2.5/3.0	Φ15/Φ20	nylon + PP

Roller Components

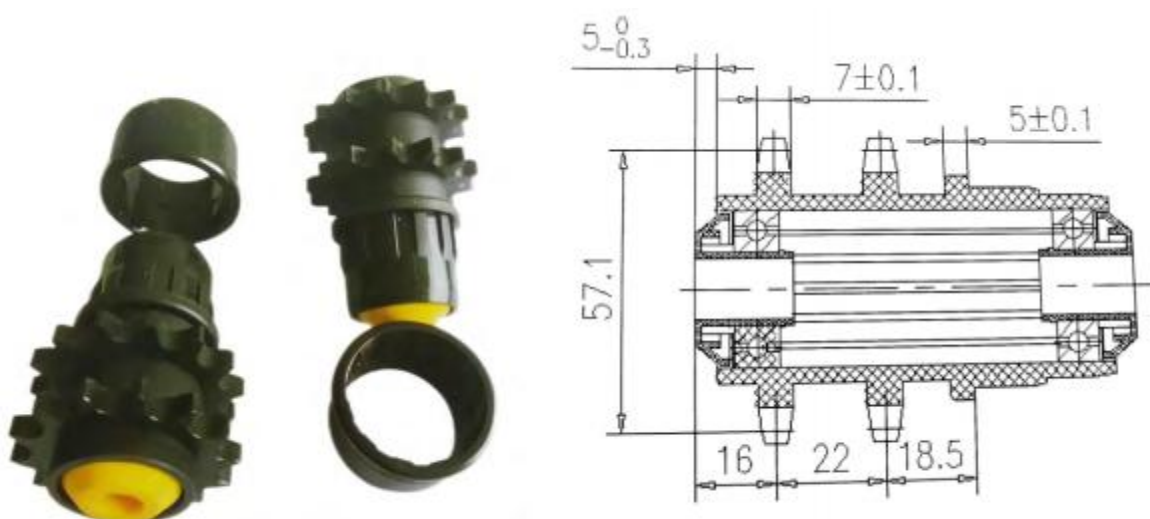
Polymer Roller Bearing Assembly



tube out diameter	tube thickness	shaft diameter	material
Φ25	1.0	Φ6	nylon + PP
Φ32	1.2/1.5	Φ8/Φ10	nylon + PP
Φ38	1.2/1.5	Φ10/Φ12/hex 11	nylon + PP
Φ50	1.2/1.5/2.0	Φ12/Φ15/hex 11	nylon + PP
Φ60	1.2/1.5/2.0	Φ12/Φ15/hex 11	nylon + PP
Φ76	2.0/2.5/3.0	Φ15/Φ20	nylon + PP

Roller Components

Polymer Sprocket Assembly

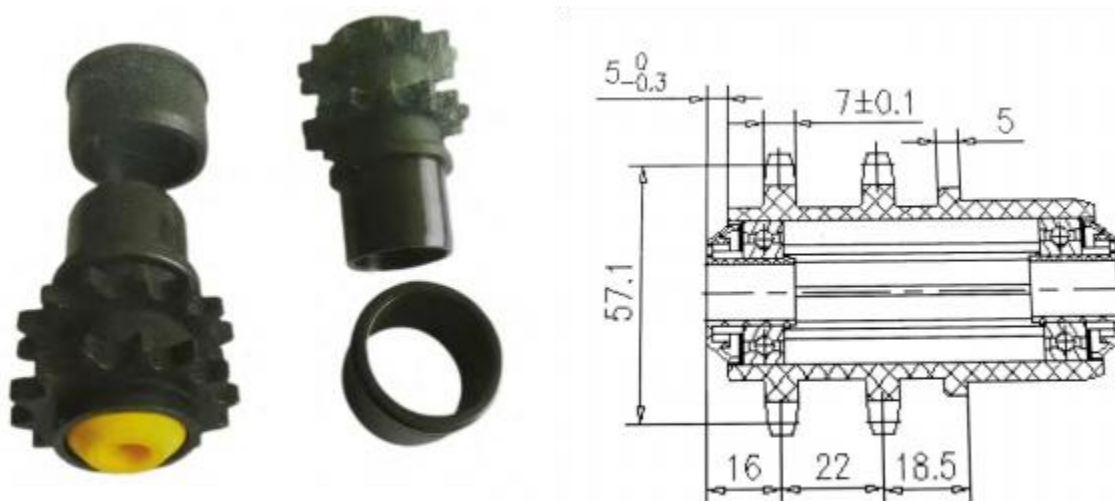


tube out diameter	tube thickness	shaft diameter	sprocket model	material
Φ50	1.2/1.5	Φ12/hex 11	08B11T/08B14T	nylon + PP
Φ60	1.2/1.5	Φ12/hex 11	08B11T/08B14T	nylon + PP

Notes: Steel sprockets are also customizable, #45 steel and stainless steel material are available .

Roller Components

Accumulating Polymer Sprocket Assembly

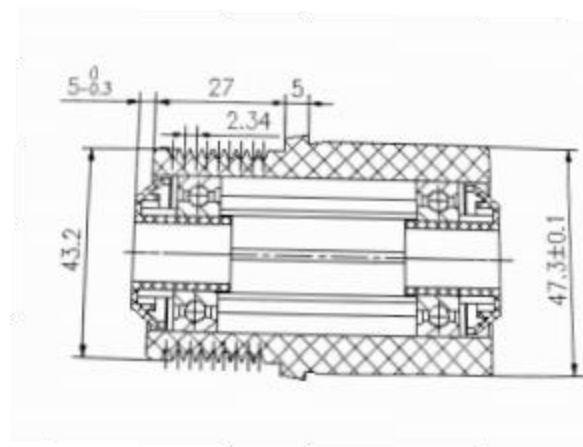


tube out diameter	tube thickness	shaft diameter	sprocket model	material
Φ50	1.2/1.5	Φ12/hex 11	08B11T/08B14T	nylon + PP
Φ60	1.2/1.5	Φ12/hex 11	08B11T/08B14T	nylon + PP

Notes: Steel sprockets are also customizable, #45 steel and stainless steel material are available .

Roller Components

Poly-V Pulley Assembly



tube out diameter	tube thickness	shaft diameter	material
Φ50	1.2/1.5	Φ12/hex 11	aluminium alloy/nylon + PP
Φ60	1.2/1.5	Φ12/hex 11	aluminium alloy/nylon + PP

Roller Components

Timing Pulley Assembly

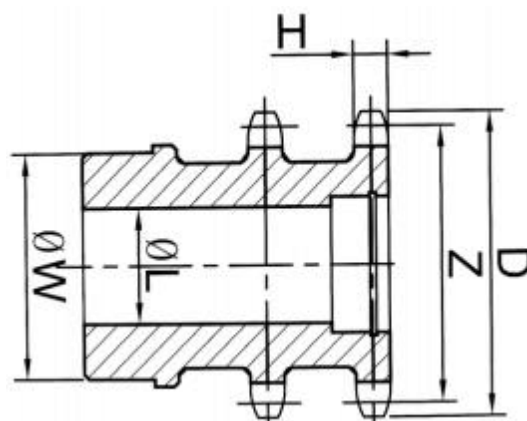
O-belt Pulley Assembly



tube out diameter	tube thickness	shaft diameter	material
Φ50	1.2/1.5	Φ12/hex 11	aluminium alloy/nylon + PP
Φ60	1.2/1.5	Φ12/hex 11	aluminium alloy/nylon + PP

Roller Components

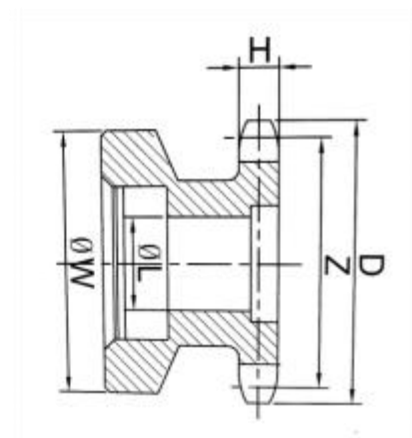
Steel Single/Double Sprocket



tube out diameter	tube thickness	shaft diameter	sprocket model	material	surface treatment
Φ38	1.2/1.5/2.0	Φ12/Φ15	06B/08B	#45 steel, SS304	hardening, oxidation
Φ50	1.2/1.5/2.0	Φ12/Φ15	06B/08B	#45 steel, SS304	hardening, oxidation
Φ60	1.5/2.0/2.5/3.0	Φ12/Φ15/Φ20	08B	#45 steel, SS304	hardening, oxidation
Φ76	2.0/2.5/3.0/3.5	Φ12/Φ15/Φ20/Φ25	08B/10A	#45 steel, SS304	hardening, oxidation
Φ89	3.0/3.5/4.0	Φ12/Φ15/Φ20/Φ25	10A	#45 steel, SS304	hardening, oxidation

Roller Components

Accumulating Steel Single/Double Sprocket



tube out diameter	tube thickness	shaft diameter	sprocket model	material	surface treatment
Φ50	1.2/1.5/2.0	Φ12/Φ15	06B/08B	#45 steel, SS304	hardening, oxidation
Φ60	1.5/2.0/2.5/3.0	Φ12/Φ15/Φ20	08B	#45 steel, SS304	hardening, oxidation



银轴智能

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