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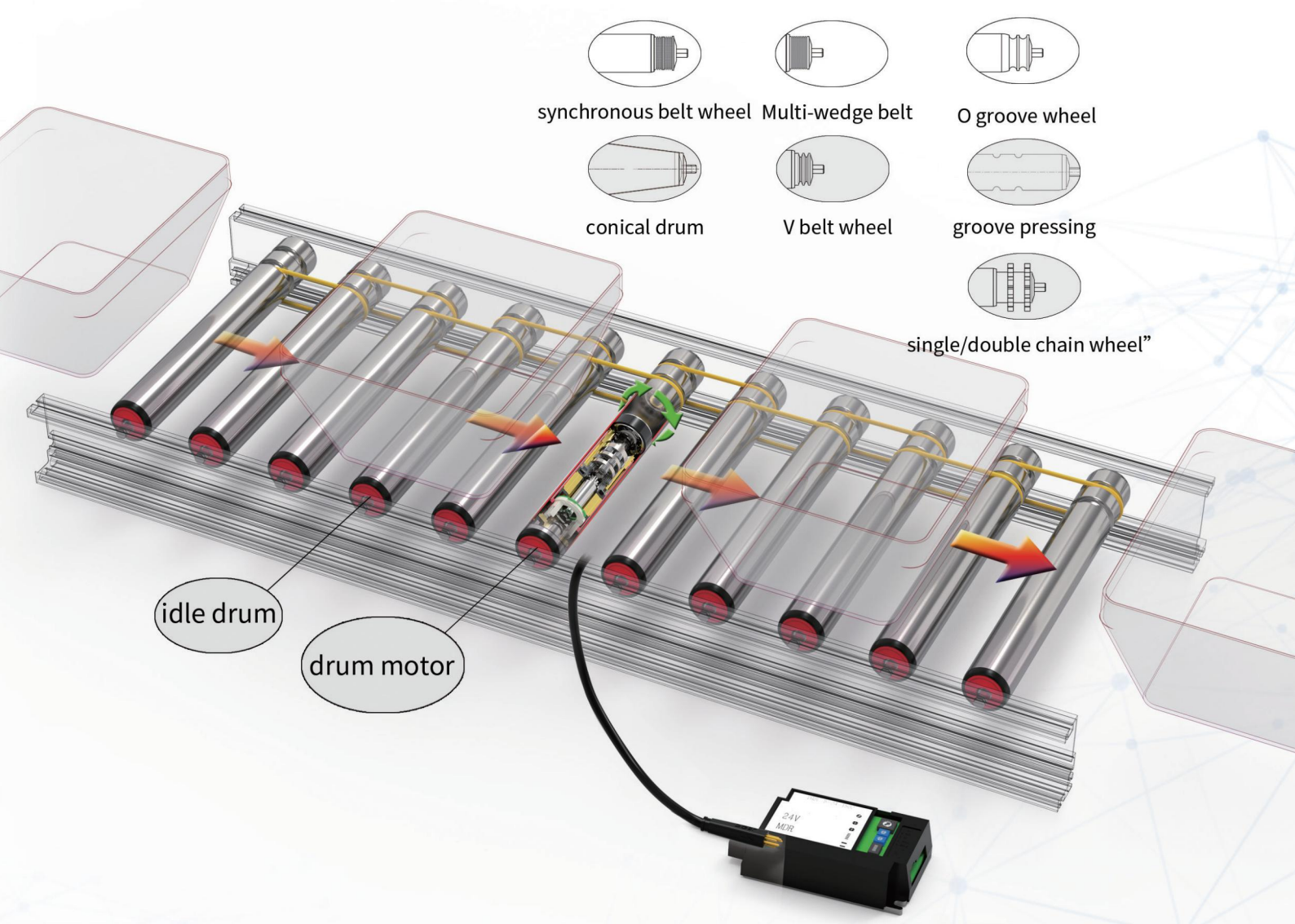
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CONVEYING ROLLER PRODUCT INTRODUCTION



HUZHOU WINROLLER TRANSMISSION TECHNOLOGY CO., LTD

Manufacturing expert in advanced conveying technology



胜牌智能

传动科技
专业制造

ABOUT US

Miniature and small drum motor expert

WINROLLER, the world's leading roller manufacturer, is a pioneer enterprise engaged in roller R&D and production earlier in China, providing customers with value-added services such as roller equipment optimization, intelligent transmission process consultation and optimization.

The company has more than 20 patents, more than 20 scientific and technological achievements in total, and its products have obtained ISO9001 quality system certification, EU CE certification, etc. Shengpai drum has been widely used in domestic large-scale logistics, security inspection, industrial automation and other fields.

Products include:

Miniature motor roller for rolling transport;

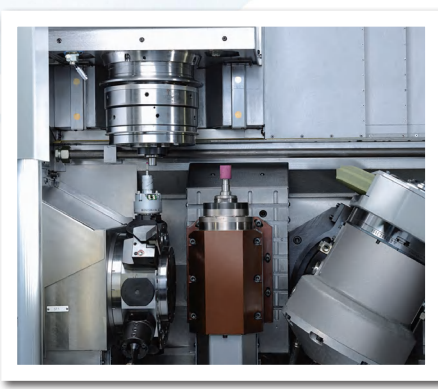
Small motor roller for belt conveyor;

Suitable for higher requirements of

DC 24V、48V direct current drum motor;

AC servo drum motor and idle drum.





product classification:

[Drum motor series](#) (refer to the instructions of drum motor series for details)

[Idle convey drum series](#) (Reference inner page)

[Drive conveying drum series](#) (Reference inner page)

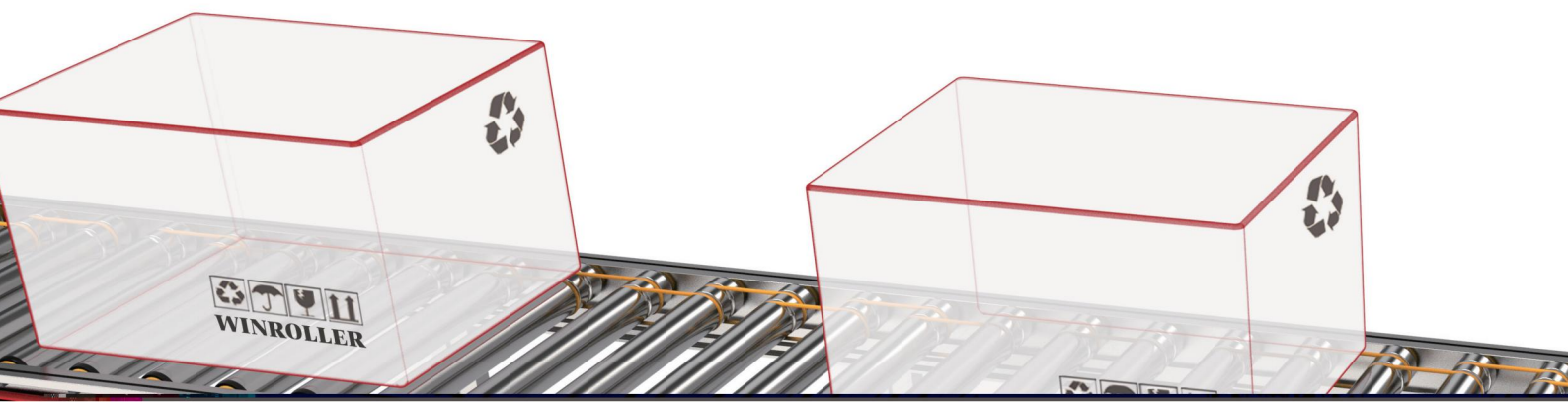
[Accumulation conveying drum series](#) (Reference inner page)

[Turning conveying drum series](#) (Reference inner page)

Drum motor diameter:

Φ38、Φ50、Φ57、Φ60、Φ67、Φ76、Φ80、Φ98、Φ113、Φ138、Φ165、Φ216

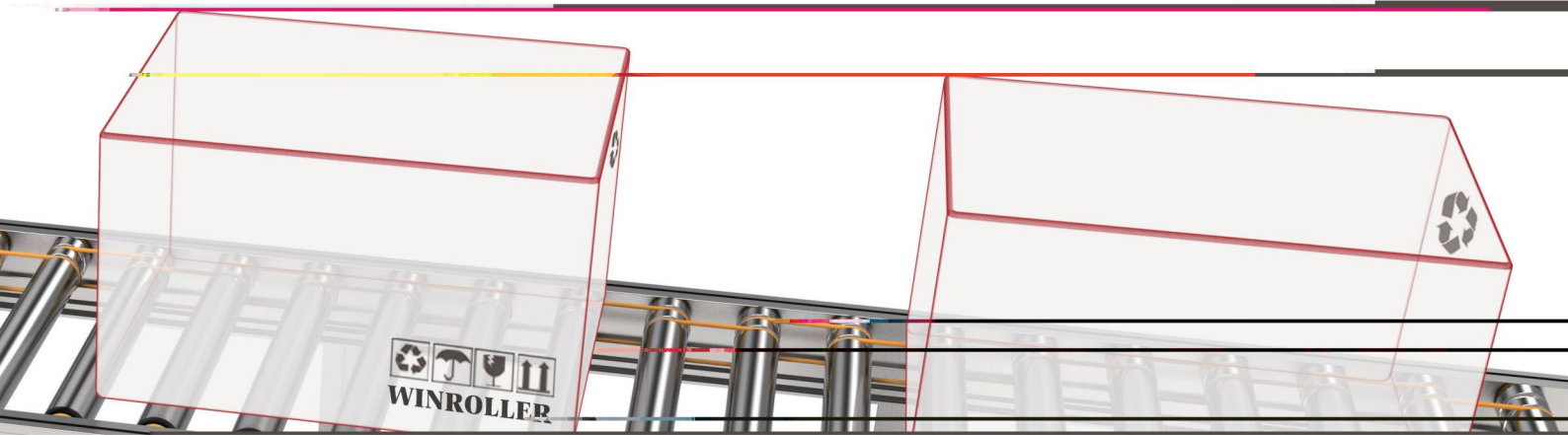




Basic technical information

The selection of roller need to consider the relevant points as below:

- ★ Total load of conveying object (minimum and maximum)
- ★ The shape and character of the object
- ★ The design and condition of the bottom of the object
- ★ Conveying speed
- ★ Static load or dynamic load for the drum
- ★ Working condition (humidity, temperature, decay chemicals, clean room, etc.)
- ★ The impact of static electricity on objects/condition
- ★ Drum motor or idle drum for the conveyor



Drum material and axis

Tube

PVC
aluminium alloy
galvanized steel
stainless
coated rubber

Axis center

Spring pressing type
flat with double milling
Internal/external thread
hexagon
(steel,galvanized,stainless)

Bearing

carbon steel/stainless
Standard/light rotation
Precision Bearing (2RZ)
Semi-precision bearing

Detail description of conveying drum

Drum loading

The main factors affecting the drum loading are: drum material, axis center and bearing, and be determined by the weakest of them:

1. Beyond the limit of loading will lead to excessive bending of the drum, irreversible permanent deformation, result in the transport becomes unstable.
2. The strength of the axis center is not enough, which will lead to the change of the bearing's stress state, thus affecting the service life of the bearing.
3. Overload of objects will reduce the service life of bearings greatly.
4. You should also consider the high and low error of conveying surface after the drum installed, the department force in loading and unloading goods and other factors when choosing the drum.
5. The mechanical properties of steel tube and stainless tube are similar in loading, so they are generally considered to have the same loading.
6. Normally, increasing the wall thickness can enhance the resistance of the drum only (not easy to dent), it has little impact on the loading capacity of the drum.

Drum run-out

The round run-out is an important indicator of the performance of the drum, the quality of the performance will affect the stability and reliability of the object conveying directly, the large run-out will lead to the delivery of objects' bumpy, deviate from the normal output direction, affect the accuracy of the conveying, loud noise, and even cause damage to objects and equipment.













Roller Length	Straight Roller	Conical Drum
100 ~ 500	0.4	0.7
501 ~ 1000	0.5	0.9
1001 ~ 1600	0.9	1.4
1601 ~ 2000	1.2	/
2000 ~ 2500	1.5	/

Unit:mm

Product model order code selection example

Select the required parameters in the following table:



Category	Diameter	Barrel length RL*	Tubular Material	Drive mode	Axes at both ends
CD	32 38 50 60 76	customize	X: Galvanized Carbon Steel G: Chromated Carbon Steel Ni: Nickelplate Carbon Steel P: Polyurethane rubber coated S3: Stainless 304 S2: Stainless 201 JT: Sleeve rubber JZ: Coated rubber JP: PCV rubber JG: Silica gel	Q: Multi-ribbed belt 	H: $\Phi 12$ flat 8double milling
				V: V belt wheel 	
				T: Synchronous belt wheel 	
				E: O belt wheel 	H 2 : M 1 2 f l a t 8double milling
				L: Chain wheel 	C: 11 hex, $\Phi 12$
				O: Pressure O groove 	C2: 11 hex, M12
				#: Knurling 	
				I: Straight roller 	/ : M 8 I n t e r n a l thread
				U: Barrel-type roller 	
				ZT: Cone sleeve 	

- ※ Other voltages and roller shapes can be customized.;
- ※ Special requirements: dustproof and waterproof (P65)--HS; Brake (electromagnetic brake)--Z; Accumulation and Accumulation (adjustable)--AU; Elastic axis --TX;
- ※ Conical roller material only (galvanized、stainless).

Detail description of conveying drum

Material:

Carbon welded tube Q235:

With the continuous development of tube producing process and welding technology, welded tube has replaced the hot rolled seamless tube to become the most commonly used raw material in the logistics conveying roller, its mechanical properties fully meet the loading, bending and other requirements.

Standard specification for common tube	
Diameter	Drum shell thickness
Φ19	1.0
Φ25	1.0/1.2
Φ32	1.2
	1.5
Φ38	1.2
	1.5
Φ50	1.5
	2.0
Φ60	1.5
	2.0
	3.0
Φ76	3.0
	4.0
Φ80	3.0
Φ89	3.0
	4.0
Φ108	3.0
Φ114	3.0

Unit:mm

Compared with carbon welded tube and stainless tube, the hardness of aluminum alloy only 1/3 of them, but light weight, and water proof, anti-rust which suitable for the requirement for light weight or water shower occasions.

PVC material:

The loading capacity of PVC tube (polyvinyl chloride) is much lower than steel tube, but it is widely used in a certain industry by its own uniqueness. Anti-corrosion, easy to clean, light weight, low noise.

stainless material:

The stainless welded tube is also one normal type of raw material to produce drums, beautiful and anti-corrosion, longer durable than steel tube

Surface treatment:

Galvanized

According to the electrolysis, the uniform, to dense, well combined galvanized layer is formed on the drum surface. It's more economical and also the most used surface treatment.

1. Thickness of zinc coating: 8~12 μ m
2. Galvanized does not have strong wear resistance, will gradually wear with the use of roller (if necessary, pls choose hard chromated and other surface treatment)
3. Galvanized can't touch foods directly
4. Blue and white zinc coating, in line with REACH environmental protection requirements

Hard chromated

The drum surface chromate thickness above 20 μ m, to improve the hardness, wear resistance, temperature resistance and corrosion resistance of components. The surface can reach the maximum hardness of 1200HV.

Rubber coated

In order to improve the friction between the contact surface of the object and the drum, and the protection of the conveying object, reduce the noise during conveying, the drum surface is coated by rubber, such as: polyurethane, natural rubber, butadiene rubber, silicone and so on.

>> Natural rubber:

- 1、 High elasticity at room temperature.
- 2、 Good strength, low hysteresis loss.
- 3、 Good electrical insulation performance.
- 4、 Good alkali resistance, but not strong acid resistance.
- 5、 Oil resistance and solvent resistance is not good.

>> NBR(nitrile rubber buna):

- 1、 With excellent oil resistance.
- 2、 High wear resistance and heat resistance.
- 3、 Low elasticity.
- 4、 Poor cold resistance and ozone resistance.
- 5、 Poor electrical insulation.

>> Polyurethane:

1. Good wear resistance.
2. High oil and water resistance.

Rubber sleeved

PVC soft rubber:

In addition to the traditional rubber coated, you can also choose to sleeve PVC soft rubber, increase friction, reduce the object bottom surface friction, reduce the object and tube surface noise and vibration, production cycle faster.

Material	Soft PVC
suitable for drum diameter	Φ50/Φ60mm
rubber thickness	2mm
color	grey,black
hardness	Shore (A)63+5 degrees
toleration	Oil tolerance
electrical insulation	does not conduct electricity
applicable temperature	-25°C ~ +50°C

Axis center&bearing:

Axis center

All the load on the drum is carried by the axis center ultimately, which supports the whole load of the drum. We choose high quality 45# carbon steel as the axis center, axis center & bearing has a greater strength.

Aircular axis (Unit:mm) :

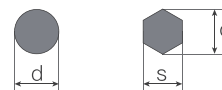
d: ø6, ø8, ø10, ø12, ø15, ø17, ø20, ø25, ø30 and so on

Hexagonal axis (Unit:mm) :

S: 11hex d: φ12

Installation:

Spring pressing type, internal thread, external thread, flat tenon, half round flat, pin hole.



Bearing

Bearing is one of the most critical components of a drum, properly selected or not directly determines the performance and life of the drum.

Semi-precision bearings:

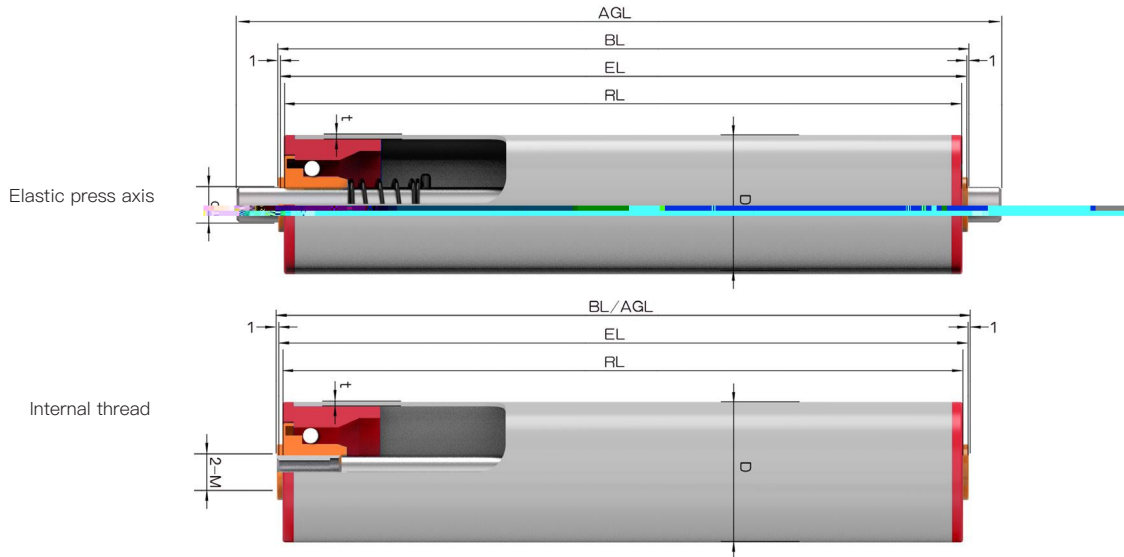
Light and medium drum choose semi-precision deep groove ball bearings, light rotation, flexible, high noise (not suitable for belt drum and belt friction conveying).

Precision bearing:

With plastic components or steel stamping components, low noise, suitable for high-speed conveying, can prevent dust and splashing damage to the bearing to a certain extent, the environment requirements is not high.

Idle conveyor drum series

AOO series — PVC tube drum



- ★ Plastic ball bearings
- ★ PVC tube with good chemical stability
- ★ $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$ Light and flexible rotation, suitable for light load, conveying temperature: $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$

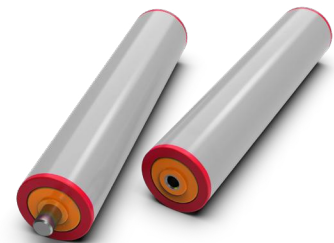
Remark:

RL: roll length

EL: effective length

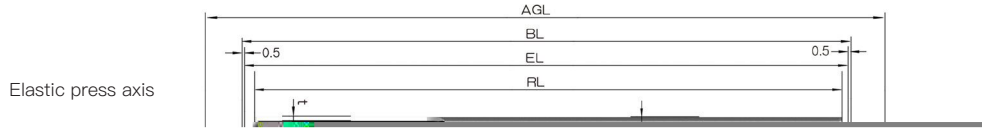
AG L: axis general length

Important installation size: base frame inner width (BF)

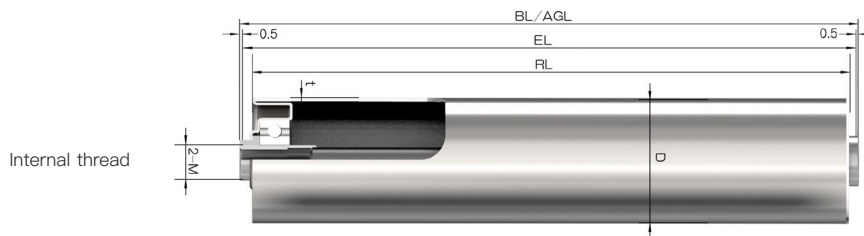


Pipe diameter and wall thickness	Bearing	Axis center	Roller material
			PVC
$\Phi 20 \times 1.5$	Semi-precision bearings	$\Phi 6$	√
$\Phi 25 \times 1.5$		$\Phi 8$	√
$\Phi 38 \times 2.0$		$\Phi 10/12$	√
$\Phi 50 \times 3.0$		$\Phi 12/15$	√

A10 series — medium and heavy conveyor drum (steel stamping components)



Elastic press axis



Internal thread

- ★Special semi-precision bearings, steel components
- ★Flexible conveying, more resistant to impact load
- ★Suitable for idles and drum down sliding line

Remark:

Ambient temperature: normal temperature (-20~+80 °C)

RL:roll length

EL: effective length

AG L:axis general length

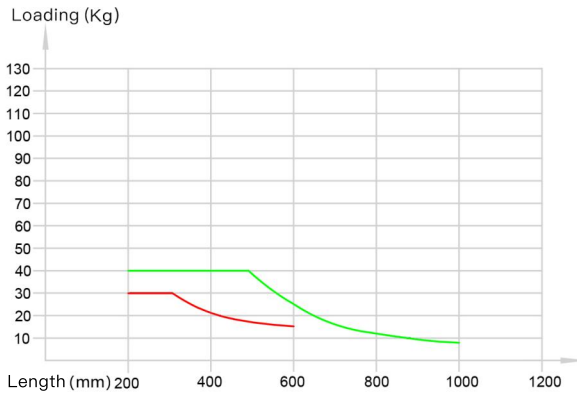
Important installation size:base frame inner width(BF)



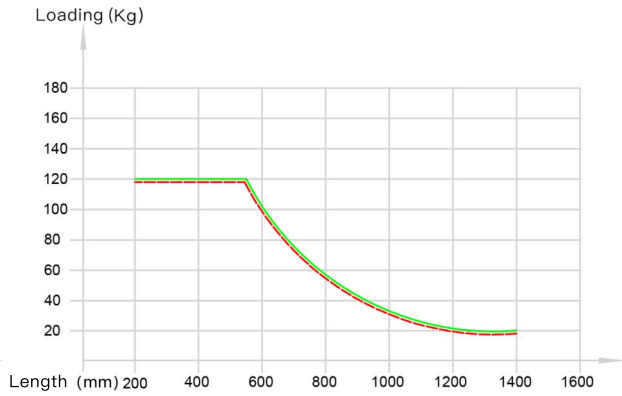
Pipe diameter and wall thickness	Bearing	Axis center	Roller material		
			Galvanizing of carbon steel	Stainless	Aluminium alloy
Φ25*1.2/1.5	Semi-precision bearings	Φ6/8	√	√	
Φ32*1.2/1.5		Φ10/12	√	√	
Φ38*1.2/1.5		Φ10/12	√	√	
Φ50*1.5/2.0		Φ12/15	√	√	√
Φ60*1.5/2.0		Φ12/15	√	√	√

A10系列——loading capacity curve

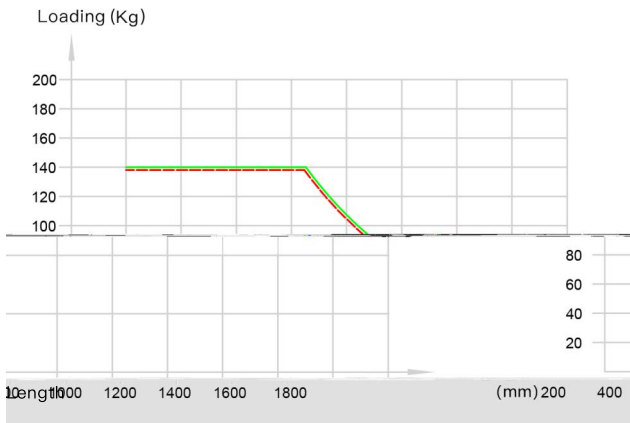
- Steel tube $\Phi 25.0 \times 1.2$, Axis center $\Phi 8$, Elastic press type
- Steel tube $\Phi 25.0 \times 1.0$, Axis center $\Phi 6$, Elastic press type



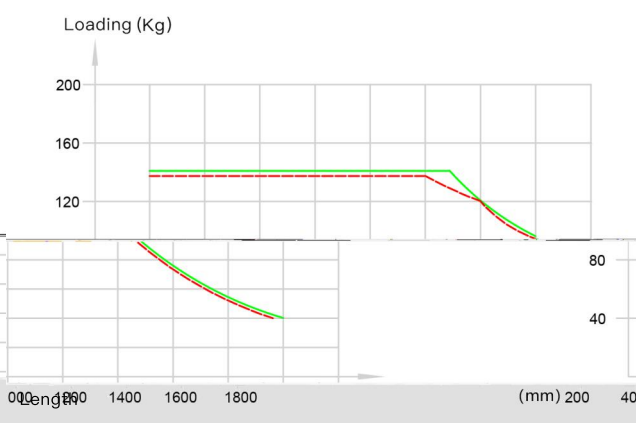
- Steel tube $\Phi 38 \times 1.2$, Axis center $\Phi 12$, Elastic press type
- Steel tube $\Phi 38 \times 1.2$, Axis center $\Phi 12$, Internal thread



- Steel tube $\Phi 50 \times 1.5$, axis center $\Phi 12$, Elastic press type
- Steel tube $\Phi 50 \times 1.5$, axis center $\Phi 12$, internal thread

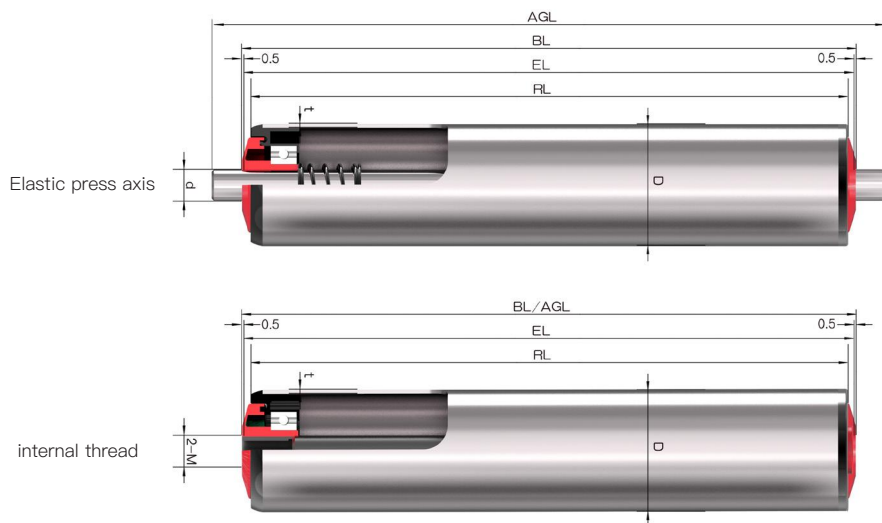


- Steel tube $\Phi 60 \times 2.0$, axis center $\Phi 12$, internal thread
- Steel tube $\Phi 60 \times 2.0$, axis center $\Phi 12$, Elastic press type



☆ The above curve data represent the uniform static load of the drum.

A20 Series — universal delivery drum (plastic components)



- ★ Precision bearings, plastic components (optional anti-static design)
- ★ Anticorrosive and rust, beautiful, quiet operation
- ★ Two sides' circular arc design of the drum to convey objects more smoothly
- ★ The maximum speed is 120m/min

Remark:

Pay attention to the working condition temperature: normal temperature (-5 ~ +40 °C)
not suitable for belt conveyor tensioning drum

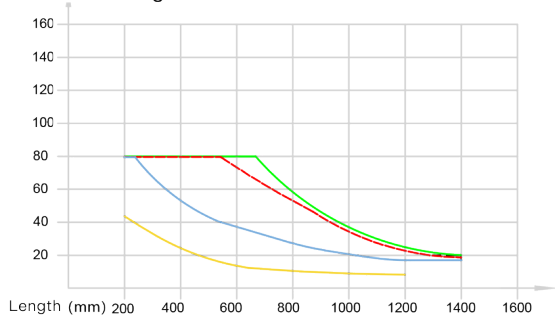


Pipe diameter and wall thickness	Bearing	Axis center	Roller material			
			Galvanizing of carbon steel	Stainless	Aluminium alloy	PVC
Φ25*1.2 非标		Φ8/10	√	√		
Φ38*1.2/1.5	6002	Φ10/12	√	√		
Φ50*1.5/2.0	6002	11hex, Φ12/15	√	√	√	√
Φ60*1.5/2.0	6002	11hex, Φ12/15	√	√	√	√

A20 series — Bearing capacity curve

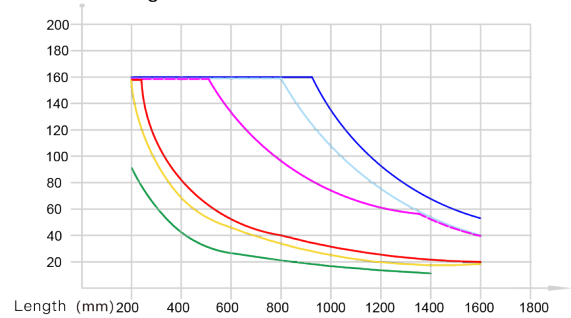
- Steel tubeΦ38*1.2, Axis centerΦ12, Internal thread
- Steel tubeΦ38*1.2, Axis centerΦ12, Elastic press type
- Steel tubeΦ38*1.2, Axis centerΦ10, Elastic press type
- Steel tubeΦ38*1.2, Axis centerΦ8, Elastic press type

Loading (Kg)



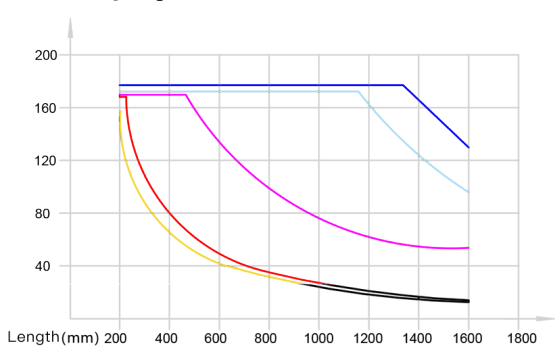
- Steel tubeΦ50*2.0, Axis centerΦ12/15, Internal thread
- Steel tubeΦ50*1.5, Axis centerΦ12/15, Internal thread
- Steel tubeΦ50*1.5, Axis centerΦ15, Flat milling
- Steel tubeΦ50*1.5, Axis centerΦ12, Elastic press type
- Steel tubeΦ50*1.5, Axis center11hex, Elastic press type
- Steel tubeΦ50*1.5, Axis centerΦ10, Elastic press type

Loading (Kg)



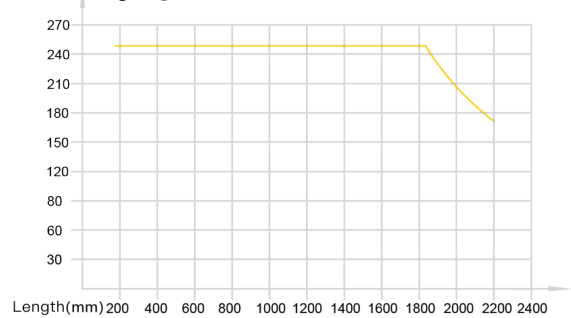
- Steel tubeΦ60*3.0, Axis centerΦ17, Internal thread
- Steel tubeΦ60*2.0, Axis centerΦ12/15, Internal thread
- Steel tubeΦ60*2.0, Axis centerΦ12/15, Flat milling
- Steel tubeΦ60*2.0, Axis centerΦ12, Elastic press type
- Steel tubeΦ60*2.0, Axis center11hex, Elastic press type

Loading (Kg)



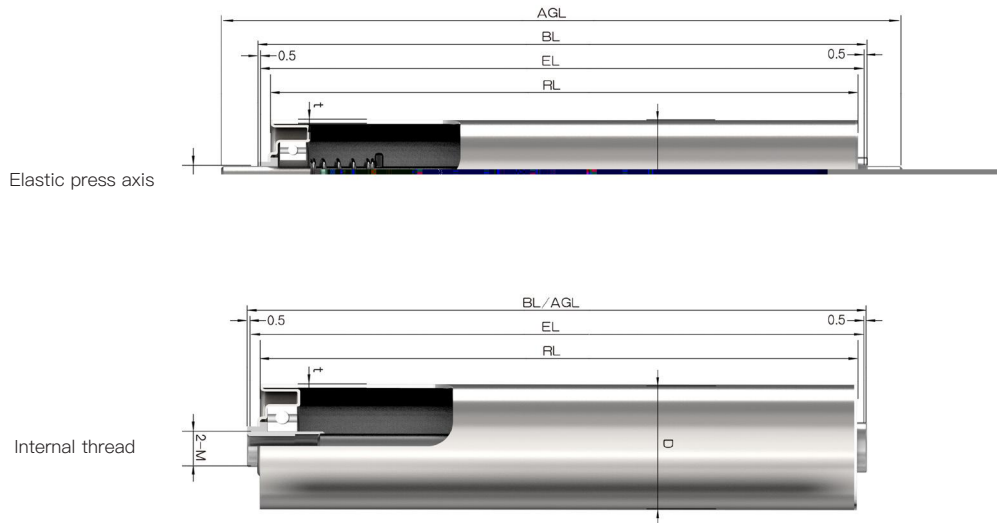
- Steel tubeΦ50*3.0, axis center20, internal thread

Loading (Kg)



☆ The above curve data represent the uniform static load of the drum.

A30 series — medium and heavy conveyor drum (steel stamping assembly)



- ★ Precision bearing, integral steel component
- ★ Strong and durable, completely anti-static
- ★ Full diameter series, large bearing range
- ★ Working condition temperature: normal temperature ($-20\sim+80\text{ }^{\circ}\text{C}$)

Remark:

Compared with A20 series, the noise is slightly higher, the rotation flexibility is slightly lower.

Can not be used for belt conveyor tensioning drum.

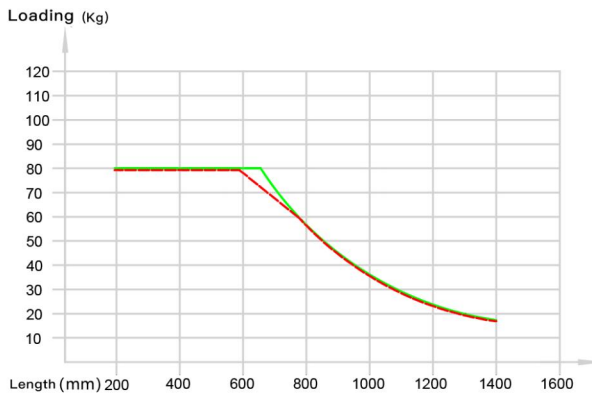
Only recommended for belt drum.



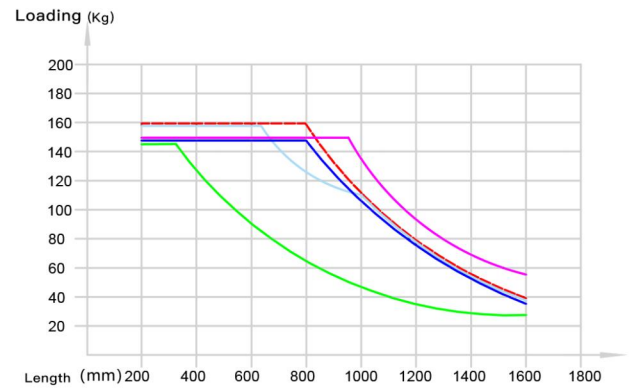
Pipe diameter and wall thickness	Bearing	Axis center	Roller material		
			Galvanizing of carbon steel	Stainless	Aluminium alloy
$\Phi 38 \times 1.2/1.5$	6001	$\Phi 12$	√	√	
$\Phi 50 \times 1.5/2.0$	6001/6002	$\Phi 12/15$	√	√	√
$\Phi 60 \times 2.0/3.0$	6001/6002	$\Phi 12/15$	√	√	√
$\Phi 76 \times 3/4.0$	6202/6204	$\Phi 15/20$	√	√	
$\Phi 80 \times 3.0$	6204	$\Phi 20$	√	√	
$\Phi 89 \times 3.0/4.0$	6204	$\Phi 20$	√	√	

A30 series — Bearing capacity curve |

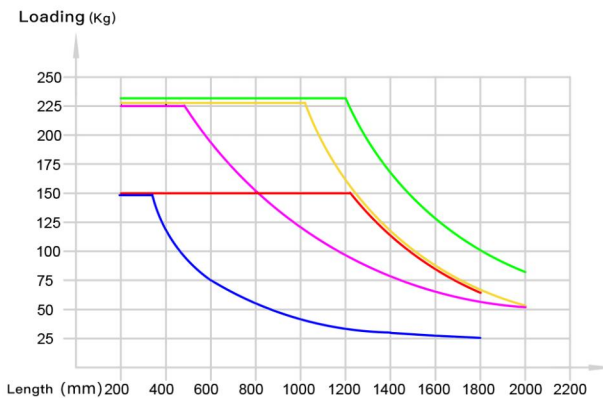
- Steel tubeΦ38*1.2, Axis centerΦ12, Internal thread
- Steel tubeΦ38*1.2, Axis centerΦ12, Elastic press type



- Steel tubeΦ50*1.5,Axis centerΦ15, Internal thread
- Steel tubeΦ50*1.5,Axis centerΦ15,Elastic press type
- Steel tubeΦ50*2.5,Axis centerΦ12, Internal thread
- Steel tubeΦ50*1.5,Axis centerΦ12, Internal thread
- Steel tubeΦ50*1.5/2.0,Axis centerΦ12, Elastic press type



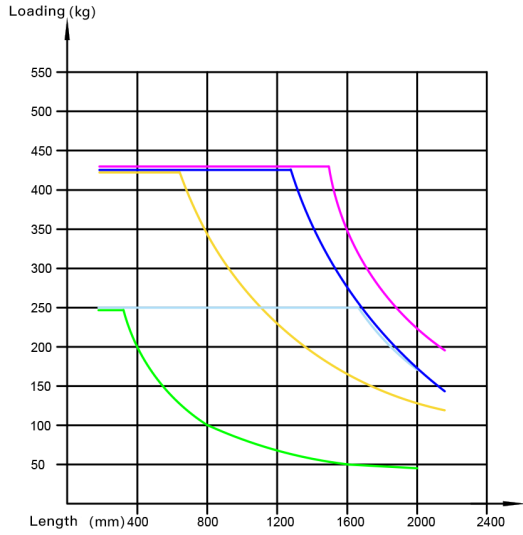
- Steel tubeΦ60*3.0,Axis centerΦ15, Internal thread
- Steel tubeΦ60*2.0,Axis centerΦ15, Internal thread
- Steel tubeΦ60*3.0,Axis centerΦ15, Elastic press type
- Steel tubeΦ60*2.0,Axis centerΦ12, Internal thread
- Steel tube Φ60*2.0,Axis centerΦ12, Elastic press type



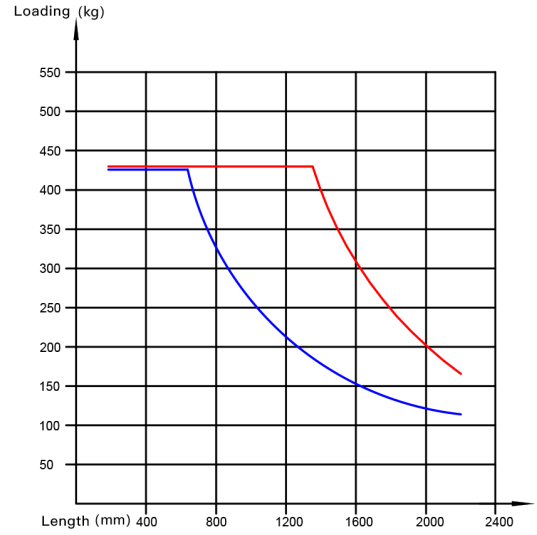
☆ The above curve data represent the uniform static load of the drum.

A30系列——Bearing capacity curve ||

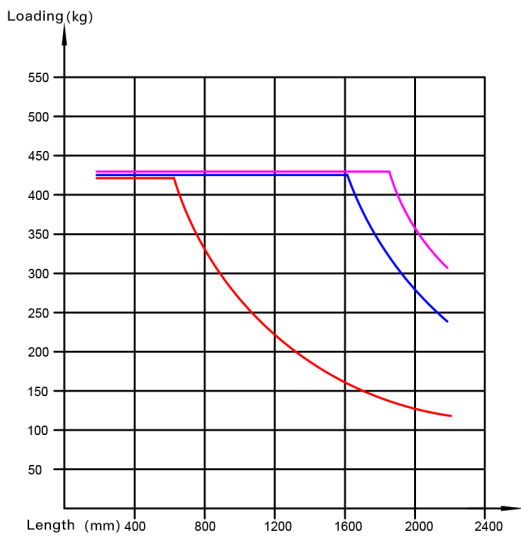
- Steel tubeΦ76*4.0, Axis centerΦ20, Internal thread
- Steel tubeΦ76*3.0, Axis centerΦ20, Internal thread
- Steel tubeΦ76*3.0/4.0, Axis centerΦ20, Elastic press type
- Steel tubeΦ76*3.0, Axis centerΦ12, Internal thread
- Steel tubeΦ76*3.0, Axis centerΦ15, Elastic press type



- Steel tubeΦ80*3.0, Axis centerΦ20, Internal thread
- Steel tubeΦ80*3.0, Axis centerΦ20, Elastic press type



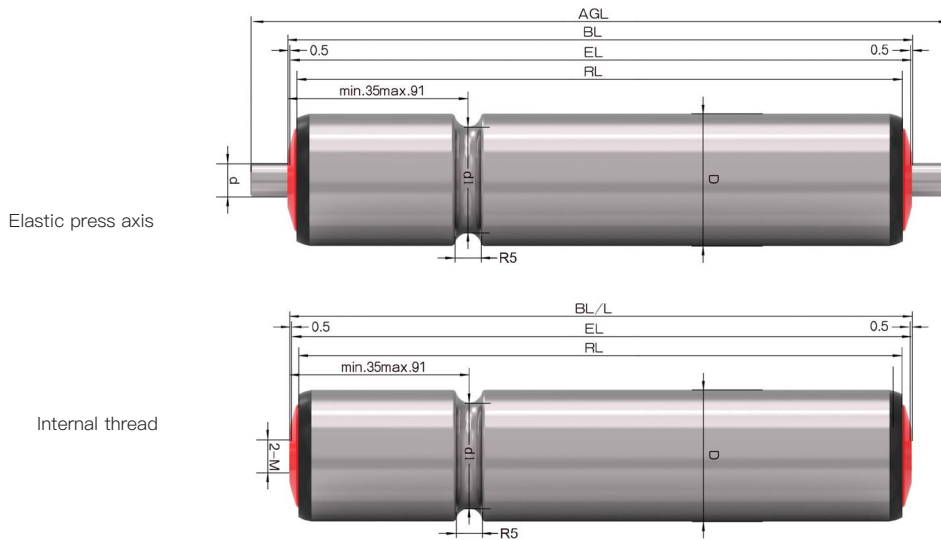
- Steel tubeΦ89*4.0, Axis centerΦ20, Internal thread
- Steel tubeΦ89*3.0, Axis centerΦ20, Internal thread
- Steel tubeΦ89*3.0/4.0, Axis centerΦ20, Elastic press type



☆ The above curve data represent the uniform static load of the drum.

Drive drum series

B11 series—Single "O" groove conveyor drum



- ★ Design based on A20 series
- ★ Simple structure, groove position can be customized
- ★ Standard anti-static design
- ★ Anticorrosive rust, beautiful; Quiet operation
- ★ "O" belt circumference is not limited, drum spacing is free

Remark:

Position of the drum groove: minimum at the end: 35mm

The driving force and convey efficiency are low, and the maintenance is maximum later

RL:roll length

EL: effective length

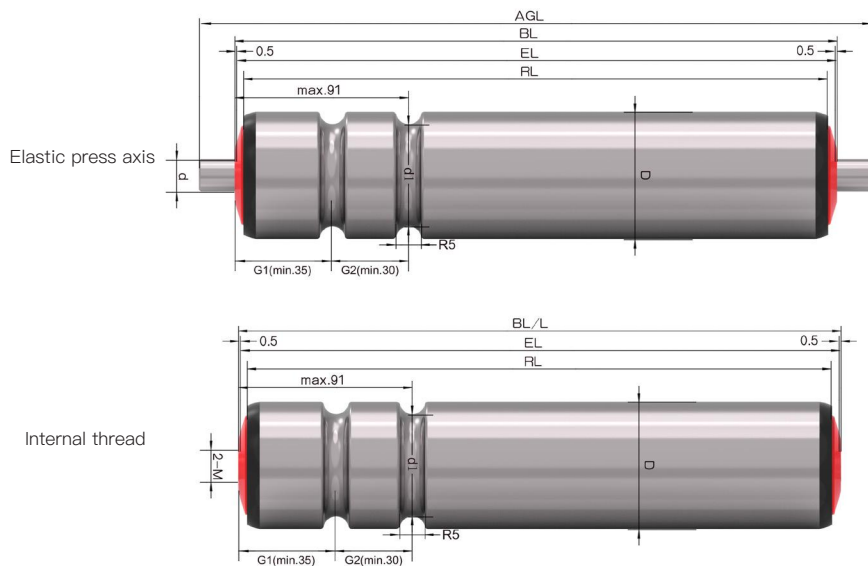
AG L:axis general length

Important installation size:base frame inner width(BF)



Pipe diameter and wall thickness	Bearing	Axis center	Roller material	
			Galvanizing of carbon steel	Stainless
Φ50*1.5	6002	11hex, Φ12/15	√	√
Φ60*2		11hex,Φ12/15	√	√

B12 series — double "O" groove conveyor drum



- ★ Design based on A20 series
- ★ Simple structure, groove position can be customized
- ★ Standard anti-static design
- ★ Anticorrosive rust, beautiful; Quiet operation
- ★ "O" belt circumference is not limited, drum spacing is free

Remark:

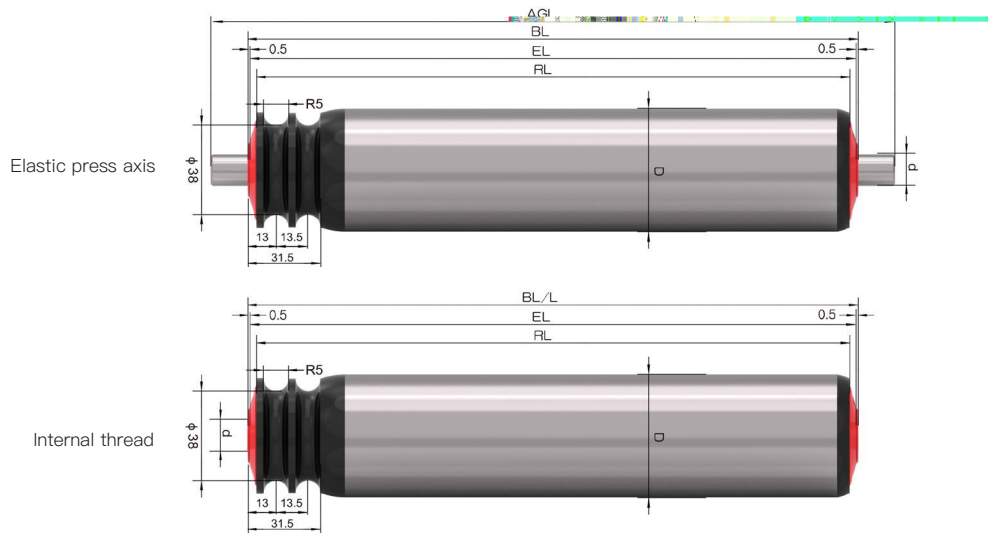
Position of the drum groove: minimum at the end: 35mm
 The driving force and convey efficiency are low, and the maintenance is maximum later

RL: roll length
 EL: effective length
 AG L: axis general length
 Important installation size: base frame inner width(BF)



Pipe diameter and wall thickness	Bearing	Axis center	Roller material	
			Galvanizing of carbon steel	Stainless
Φ50*1.5	6002	11hex, Φ12/15	√	√
Φ60*2		11hex, Φ12/15	√	√

B20 series — Plastic steel "O" belt wheel conveyor drum



- ★With B12 series design, beautiful and quiet
- ★Drive at the end of drum, more stable transmission
- ★Suitable for conveying medium and light loads

Remark:

φ50/60 tube can be sleeved with 2mm PVC soft rubber, driving force and convey efficiency is weak, maintenance is maximum later.

RL:roll length

EL: effective length

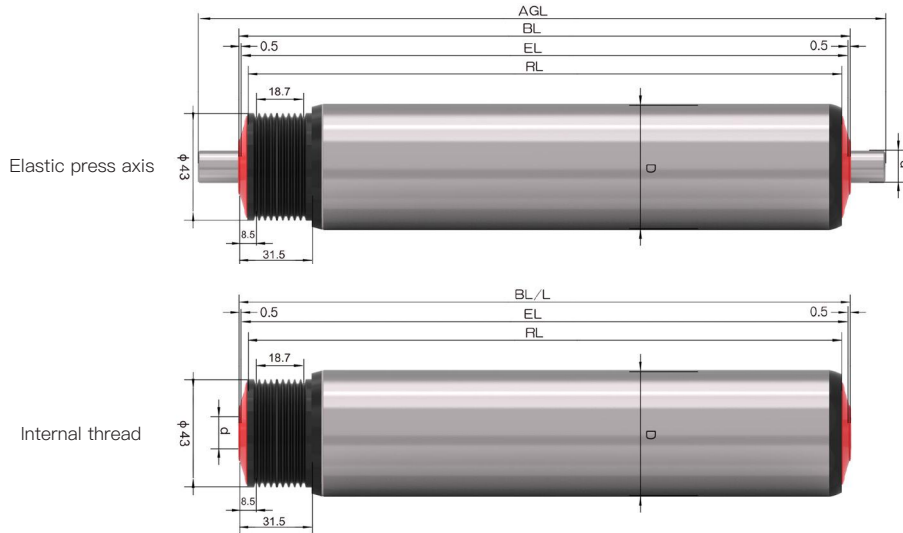
AG L:axis general length

Important installation size:base frame inner width(BF)



Pipe diameter and wall thickness	Bearing	Axis center	Roller material	
			Galvanizing of carbon steel	Stainless
φ50*1.5	6002	11hex, φ12/15	√	√

B30 series — plastic steel multi – wedge belt conveyor drum



- ★With A20 series design, beautiful and quiet
- ★High conveying speed (120m/min), silent
- ★ 9 grooves, more PJ belt selection (2PJ ~ 4PJ)
- ★High convey efficiency,3 times more than "O" belt
- ★Also suitable for turning conveyor drive

Remark:

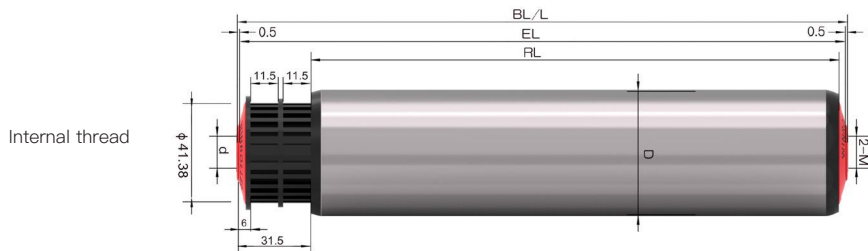
φ50/60 tubes can be sleeved with 2mm PVC soft rubber
 Drum spacing is selected according to a fixed value, driving wheel parts need to be protected

RL:roll length
 EL: effective length
 AG L:axis general length
 Important installation size:base frame inner width(BF)



Pipe diameter and wall thickness	Bearing	Axis center	Roller material	
			Galvanizing of carbon steel	Stainless
φ50*1.5	6002	11hex, φ12/15	√	√

B40 series — synchronous belt wheel conveyor drum



- ★ Compact structure, no tension, simple design.
- ★ Suitable for T5 tooth shape design of drum conveying, and has higher universality.
- ★ Accurate positioning, cooperate with the drum motor, meet the requirements of load shifting section application.
- ★ Use with PU synchronous belt, suitable for clean room and other harsh environment.
- ★ No need for any lubrication, easy maintenance.

Remark:

φ50/60 tubes can be sleeved with 2mm PVC soft rubber

Drum spacing is selected according to a fixed value, driving wheel parts need to be protected

RL: roll length

EL: effective length

AG L: axis general length

Important installation size: base frame inner width (BF)



Pipe diameter and wall thickness	Bearing	Axis center	Roller material	
			Galvanizing of carbon steel	Stainless
φ50*1.5	6002	11hex, φ12/15	√	√

Double chain drive diagram

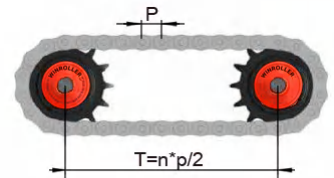
Double chain wheel drive drum

The structure is relatively simple

There is no need for a chain guide, have strict drum spacing – according to the pitch of the chain

The torque transfer time attenuation is large and the conveying distance is short

Double chain drive is suitable for heavy load conveying



Model	Pitch	Suggested center distance T					Tolerance
		69.8	82.5	95.2	107.9	120.6	
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

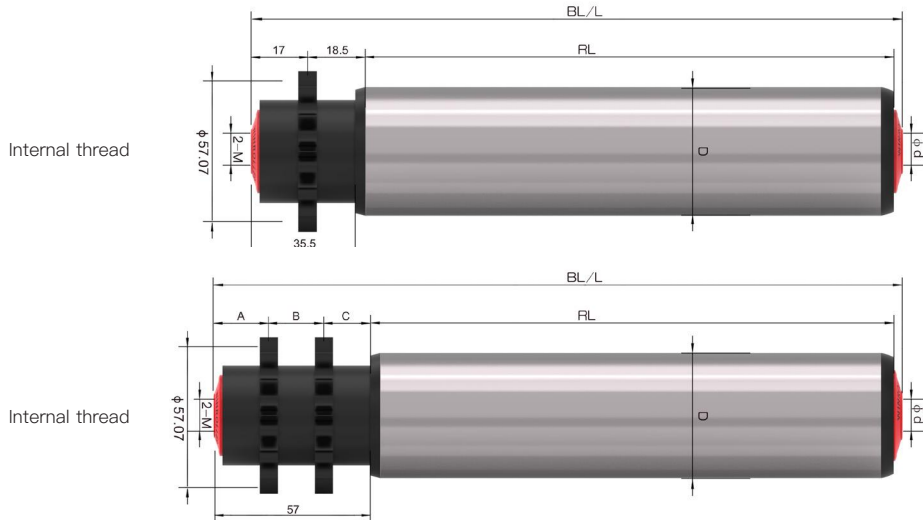
Unit: mm

Single chain wheel drive drum:

- ★Need chain guide device
- ★There is no strict limit on the distance between drums
- ★High efficiency, long conveying length (usually 9 ~ 12 meters)
- ★Single chain conveying is suitable for light and medium load



B51/52 series—Plastic steel single/double chain wheel conveyor drum



- ★ Simple structure, low cost
- ★ Plastic steel chain wheel design, more light and quiet
- ★ Self lubrication with steel chain, completely maintenance free
- ★ Suitable for light/medium load conveying

Remark:

φ50/60 tube sleeved 2mmPVC soft rubber

RL:roll length

EL: effective length

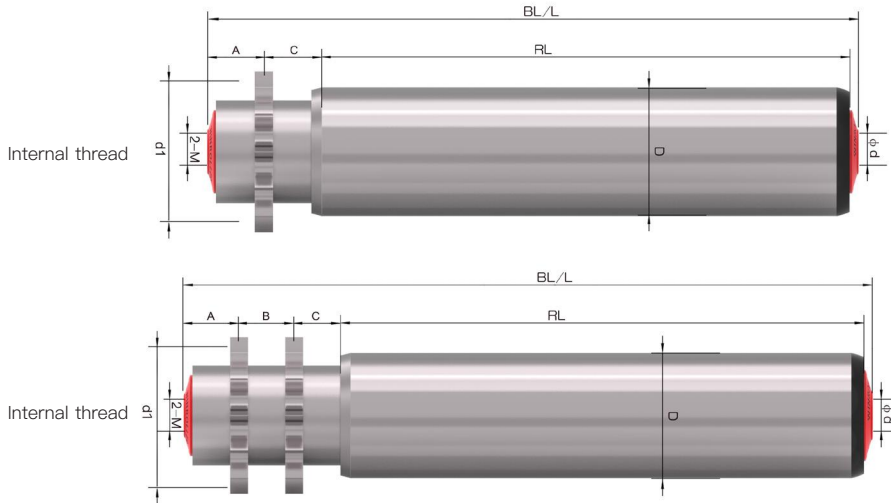
AG L:axis general length

Important installation size:base frame inner width(BF)



Pipe diameter and wall thickness	Bearing	Axis center	Chain wheel	A	B	C	Roller material			
							Galvanizing of carbon steel	Stainless	aluminium alloy	PVC
φ50*1.5	6002	φ12/15	08B14T/08B11T	17	22	18.5	√	√	√	
φ50*3.0	6002	φ12/15	08B14T/08B11T	17	22	18.5				√
φ60*2.0	6002	φ12/15	08B14T/08B11T	17	22	18.5	√	√	√	

B61/62 series — Steel single/double chain wheel conveyor drum



- ★Steel chain wheel and drum tube with whole welding, high strength
- ★Large transfer torque, wide loading range
- ★Plastic bearing seat
- ★Lighter, quieter operation

Remark:

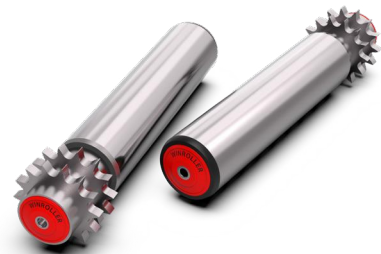
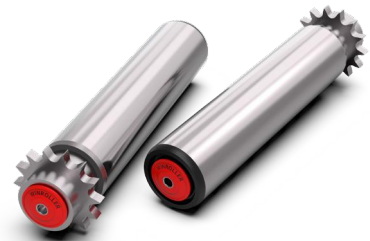
Suitable for an environment ranging from -5°C to $+40^{\circ}\text{C}$

RL:roll length

EL: effective length

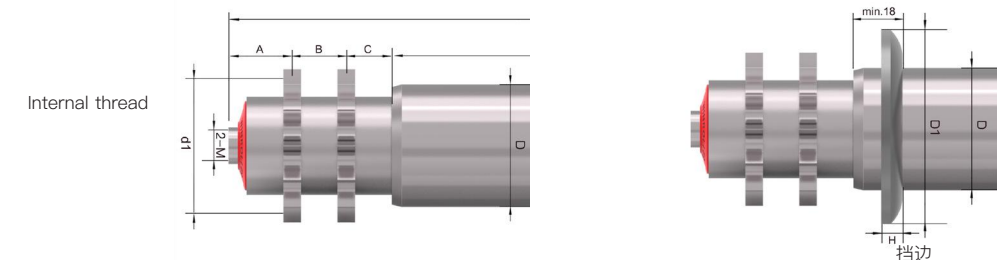
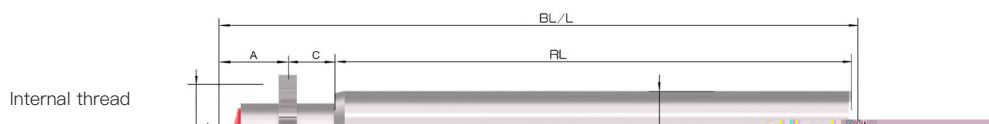
AG L:axis general length

Important installation size:base frame inner width(BF)



Pipe diameter and wall thickness	Bearing	Axis center	Chain wheel	A	B	C	Roller material	
							Galvanizing of carbon steel	Stainless
Φ50*1.5/2.0	6002	Φ12/15	08B14T	20	25	18.5	√	√
Φ60*2.0	6002	Φ12/15	08B14T	20	25	18.5	√	√
Φ76*3.0	6204	Φ20	10A13T	20	25	18.5	√	√

B71/72 series — Steel single/double chain wheel conveyor drum



- ★ Similar to B61/62 serie
- ★ Steel chain wheel and drum tube with whole welding
- ★ High strength, Large transfer torque
- ★ Steel bearing seat, beautiful and quiet
- ★ Guide guard (flange) can be configured to ensure straight conveying and positioning



Remark:

Remark: Suitable for an environment ranging from -20°C to $+80^{\circ}\text{C}$

RL: roll length

EL: effective length

AG L: axis general length

Important installation size: base frame inner width (BF)

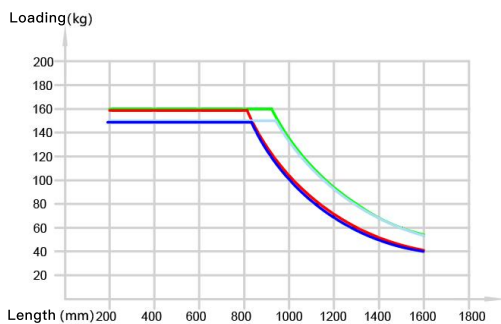
Flange welding size:

Mode	D	DF	H
Welding	$\Phi 60$	$\Phi 120$	12
	$\Phi 76$	$\Phi 135$	16.5
	$\Phi 89$	$\Phi 150$	18
Locking	$\Phi 76$	$\Phi 138/\Phi 195$	23 (aluminum)

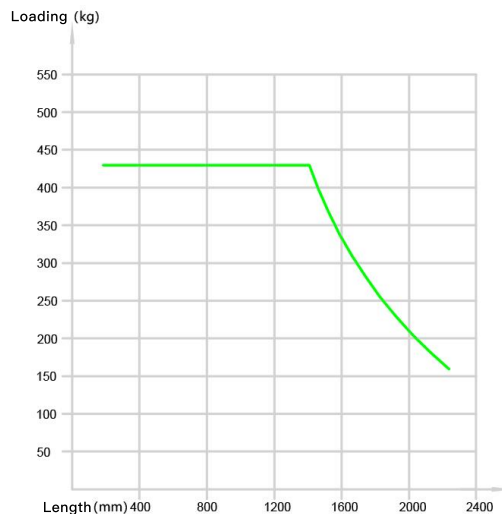
Pipe diameter and wall thickness	Bearing	Axis center	Chain wheel	Roller material	
				Galvanizing of carbon steel	Stainless
$\Phi 50 \times 1.5$	6001/6002	$\Phi 12/15$	08B11T/08B14T	√	√
$\Phi 50 \times 2.0$	6001/6002	$\Phi 12/15$	08B11T/08B14T	√	
$\Phi 60 \times 2.0$	6001/6002	$\Phi 12/15$	08B14T	√	√
$\Phi 60 \times 3.0$	6002	$\Phi 15$	08B14T	√	
$\Phi 76 \times 3.0$	6202/6204	$\Phi 15/20$	10A13T	√	√
$\Phi 76 \times 4.0$	6204	$\Phi 20$	10A13T	√	
$\Phi 80 \times 3.0$	6204	$\Phi 20$	10B15T	√	
$\Phi 89 \times 3.0$	6204	$\Phi 20$	10B15T	√	
$\Phi 89 \times 4.0$	6204	$\Phi 20$	10B15T	√	

B71 Series — Loading capacity curve

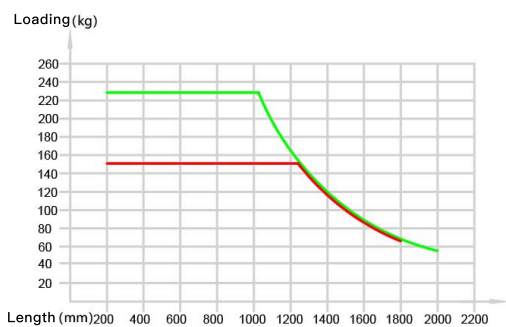
- Steel tube $\Phi 50 \times 2.0$, Axis center $\Phi 15$, Internal thread
- Steel tube $\Phi 50 \times 1.5$, Axis center $\Phi 15$, Internal thread
- Steel tube $\Phi 50 \times 2.0$, Axis center $\Phi 12$, Internal thread
- Steel tube $\Phi 50 \times 1.5$, Axis center $\Phi 12$, Internal thread



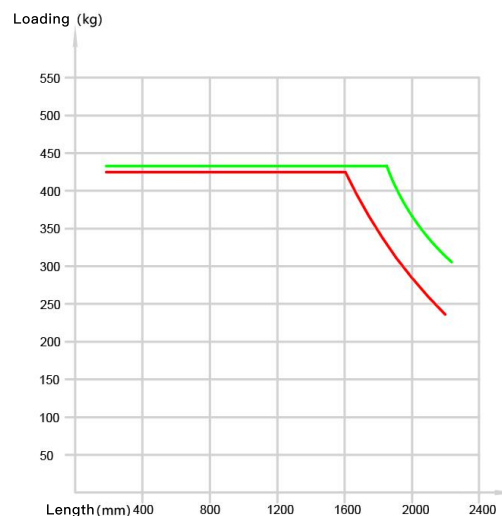
- Steel tube $\Phi 80 \times 3.0$, Axis center $\Phi 20$, Internal thread



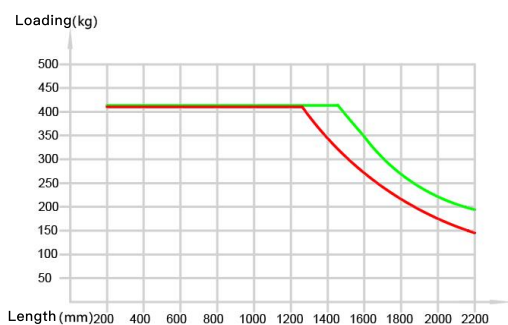
- Steel tube $\Phi 60 \times 2.0$, Axis center $\Phi 15$, Internal thread
- Steel tube $\Phi 60 \times 2.0$, Axis center $\Phi 12$, Internal thread



- Steel tube $\Phi 89 \times 4$, Axis center $\Phi 20$, Internal thread
- Steel tube $\Phi 89 \times 3.0$, Axis center $\Phi 20$, Internal thread



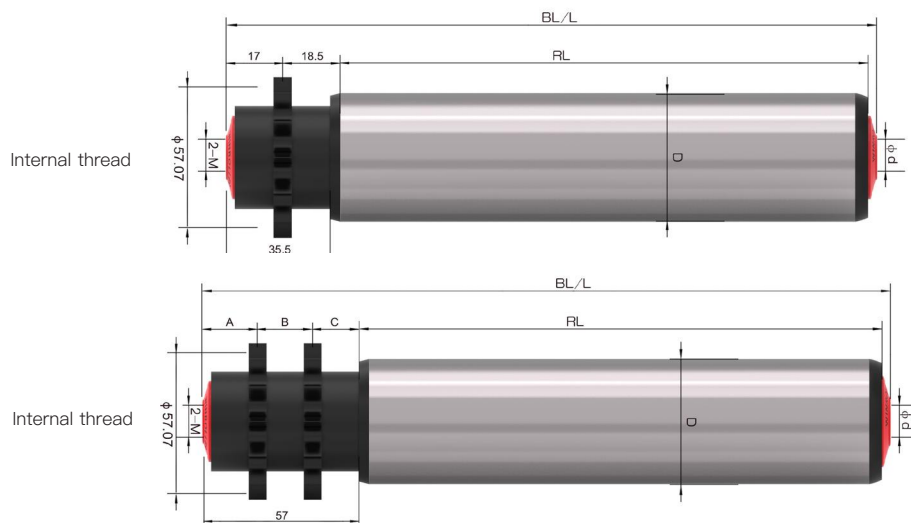
- Steel tube $\Phi 76 \times 4.0$, Axis center $\Phi 20$, Internal thread
- Steel tube $\Phi 76 \times 3.0$, Axis center $\Phi 20$, Internal thread



★ The above curve data represent the uniform static load of the drum. You should also consider factors such as strip tension, motor power and other driving capabilities, with smaller values as the basis for calculation.

Accumulation conveying drum series

C11/12 series — Plastic single/double chain wheel



- ★ Simple structure, low cost
- ★ Self-lubricating, maintenance-free, quieter conveying
- ★ Accumulation conveying of medium and light load

Remark:

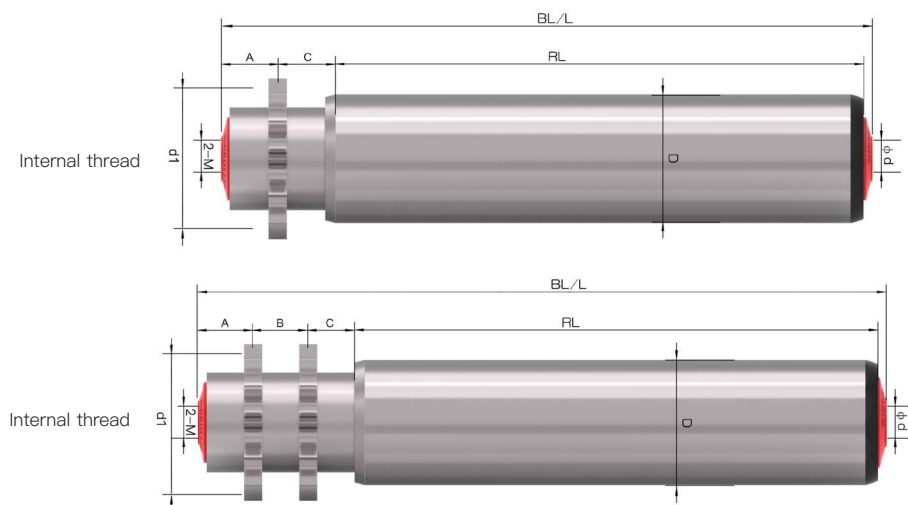
Low conveying efficiency, fixed friction coefficient, not suitable for light or heavy accumulation conveying.

It is recommended to test before batch use.



Pipe diameter and wall thickness	Bearing	Axis center	Chain wheel	A	B	C	Roller material		
							Galvanizing of carbon steel	Stainless	PVC
φ50*1.5	6002	φ12/15	08B14T	17	22	18.5	√	√	
φ60*2.0	6002	φ12/15	08B14T	17	22	18.5	√	√	

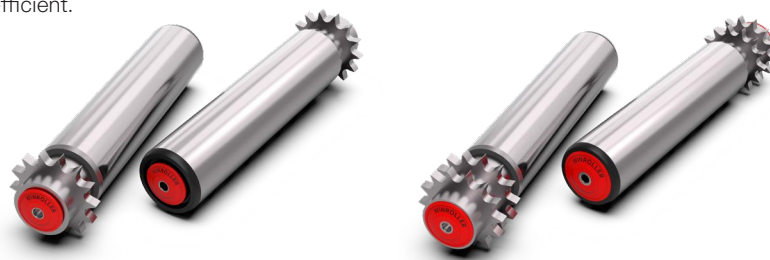
C11/12 series — steel single/double chain wheel



- ★The dimensions are the same as C11/12 series.
- ★Steel sprockets are more durable.

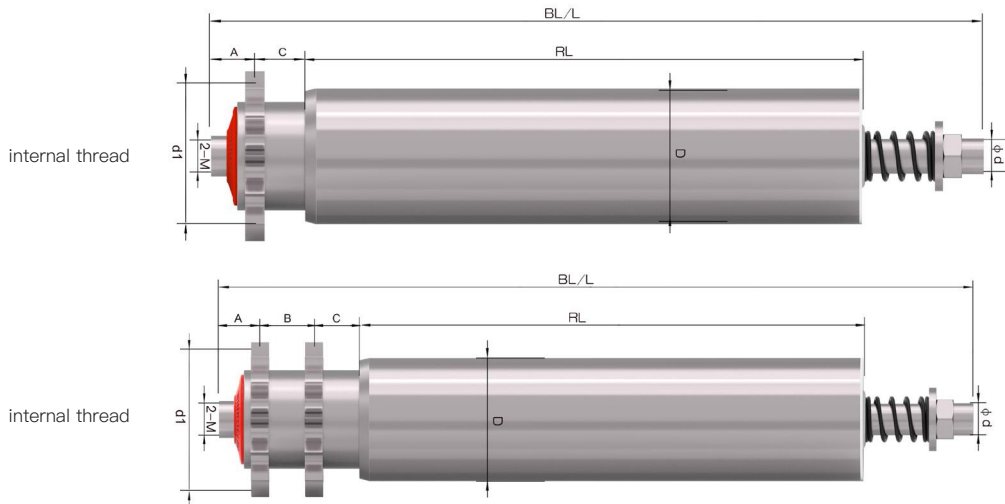
Remark:

Low conveying efficiency, fixed friction coefficient.

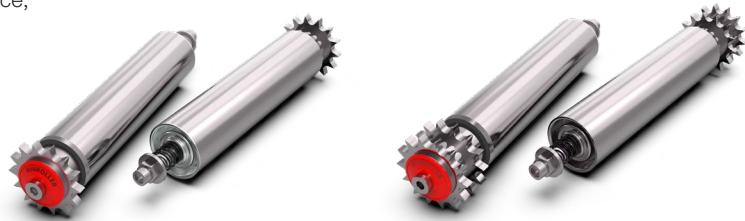


Pipe diameter and wall thickness	Bearing	Axis center	Chain wheel	A	B	C	Roller material	
							Galvanizing of carbon steel	Stainless
Φ50*1.5	6002	Φ12/15	08B14T	17	22	18.5	√	√
Φ60*2.0	6002	Φ12/15	08B14T	17	22	18.5	√	√

C31/32 series — steel single/double chain wheel



- ★Special friction plate, strong wear resistance, long life
- ★ By the spring to adjust the compression force, adjust the accumulation force
- ★Adjustable friction, more stable conveying, widely used



Pipe diameter and wall thickness	Bearing	Axis center	Chain wheel	A	B	C	Roller material		
							Galvanizing of carbon steel	Stainless	PVC
φ50*1.5	6002	φ12/15	08B14T	17	22	18.5	√	√	
φ60*2.0	6002	φ12/15	08B14T	17	22	18.5	√	√	

Remark:

Please pay attention to the driving force, as far as possible to reduce the friction resistance between the conveyor and the guardrail. If you do not have long time driving experience, please prototype test; Each drum needs to be adjusted with spring pressing, so the debugging work is large. If long time accumulation is required, it is not recommended to use the accumulation drum; drum motor or stepping conveyor is recommended.

Turning conveying drum series



D10 series, idle plastic conical drum

D20 Series Grooved plastic conical drum

D30 Series "O" belt wheel plastic conical drum

D40 series multi wedge belt wheel drive plastic conical drum

D50 series plastic chain wheel drive conical drum

D60 series idle plastic steel conical drum

D70 series Steel chain wheel and steel conical drum

Turning conveying by the different speed of the drum surface
Spacing 50mm modular PP plastic conical sleeve (250~850mm)
Beautiful and quiet, fast delivery, low cost
Anticorrosive and rust, easy to clean
Steel drum tube, strong and durable
Standard taper 3.6°, customization available
Completely anti-static, wide temperature range
Suitable for medium load conveying

Remark: Standard 3.6 ° taper (the radius inside the turn is about 800mm); Can not be anti-static, use at room temperature. Conical drum axis inclined 1.8 ° installation, conical surface to keep level

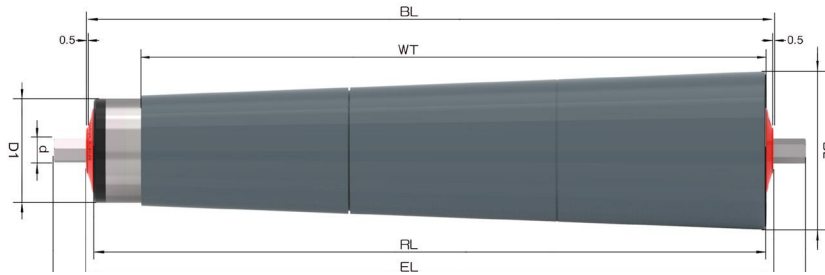


Turning conveying product features:

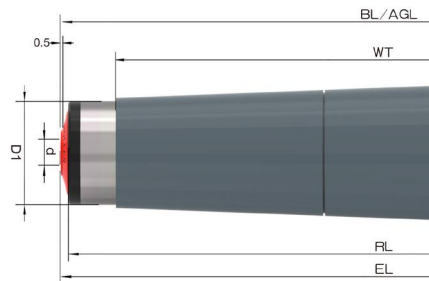
- ★ Special drum for conveying line direction change
- ★ By the different sizes of the linear speed at both ends of conical drum to achieve the effect of material steering, or staggered on the straight to achieve 90 degrees of straight steering
- ★ According to the size of the material to be conveying to choose different conical drum, under normal circumstances are in the length of the material to be conveying to add about 5cm as the length of the drum surface, the overall design of the conveyor belt should also make the weight of the material evenly distributed to the contact between the drum above, in order to ensure the stability of conveying.

D10 series — plastic conical sleeve drum

Elastic press axis



Internal thread



- ★Turning conveying by the different speed of the drum surface
- ★Spacing 50mm modular PP plastic conical sleeve (250~850mm)
- ★Beautiful and quiet, fast delivery, low cost
- ★Anticorrosive and rust, easy to clean

Remark:

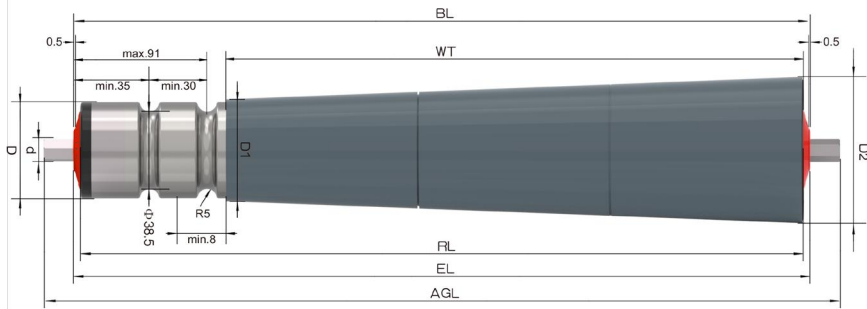
Remark:standard 3.6° taper (the radius inside the turn is about 800mm);
Can't be anti-static, use at room temperature.



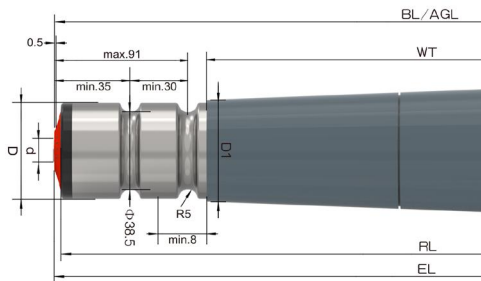
Pipe diameter and wall thickness	Axis center	Cone sleeve length	D1	D2
Φ50*1.5	11hex, Φ12/15	300	Φ56	Φ74.9
		350	Φ52.9	Φ74.9
		400	Φ56	Φ81.1
		450	Φ52.9	Φ81.1
		500	Φ56	Φ87.4
		550	Φ52.9	Φ87.4
		600	Φ56	Φ93.7
		650	Φ52.9	Φ93.7
		700	Φ56	Φ100
		750	Φ52.9	Φ100
		800	Φ56	Φ106.3
		850	Φ52.9	Φ106.3

D20 Series — Grooved plastic conical sleeve drum

Elastic press axis



Internal thread



- ★ “O” belt drive, groove in the end of the drum.
- ★ The drum is light and has good starting performance.
- ★ Suitable for light load conveying, stable operation.
- ★ Low noise, shockproof and wear-resistant.

Remark:

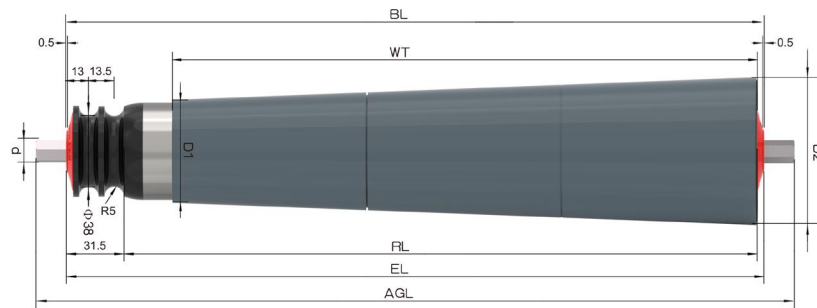
Galvanized steel and stainless tube are available.



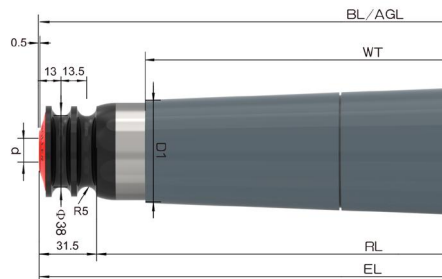
Pipe diameter and wall thickness	Axis center	Cone sleeve length	D1	D2
Φ50*1.5	11hex, Φ12/15	300	Φ56	Φ74.9
		350	Φ52.9	Φ74.9
		400	Φ56	Φ81.1
		450	Φ52.9	Φ81.1
		500	Φ56	Φ87.4
		550	Φ52.9	Φ87.4
		600	Φ56	Φ93.7
		650	Φ52.9	Φ93.7
		700	Φ56	Φ100
		750	Φ52.9	Φ100
		800	Φ56	Φ106.3
850	Φ52.9	Φ106.3		

D30 Series — "O" belt wheel plastic conical sleeve drum

Elastic press type



Internal thread



- ★ "O" belt drive, groove in the end of the drum.
- ★ The drum is light and has good starting performance.
- ★ Suitable for light load conveying, stable operation.
- ★ Low noise, shockproof and wear-resistant.



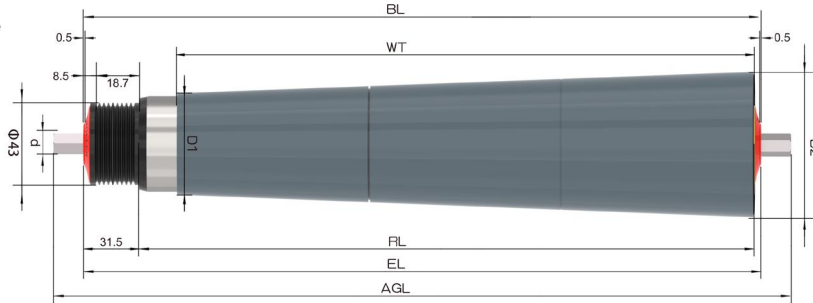
Remark:

galvanized steel and stainless tube are available.

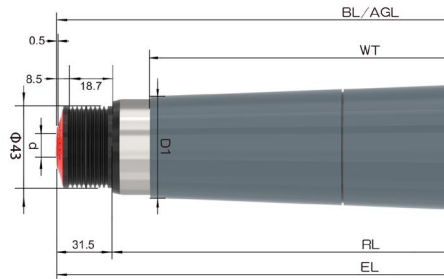
Pipe diameter and wall thickness	Axis center	Cone sleeve length	D1	D2
Φ50*1.5	11hex, Φ12/15	300	Φ56	Φ74.9
		350	Φ52.9	Φ74.9
		400	Φ56	Φ81.1
		450	Φ52.9	Φ81.1
		500	Φ56	Φ87.4
		550	Φ52.9	Φ87.4
		600	Φ56	Φ93.7
		650	Φ52.9	Φ93.7
		700	Φ56	Φ100
		750	Φ52.9	Φ100
		800	Φ56	Φ106.3
		850	Φ52.9	Φ106.3

D40 series — multi wedge belt wheel drive plastic conical sleeve drum

Elastic press type



Internal thread



- ★ multi wedge belt wheel drive, high speed and quiet
- ★ Suitable for light and medium load conveying
- ★ The drum is light and has good starting performance

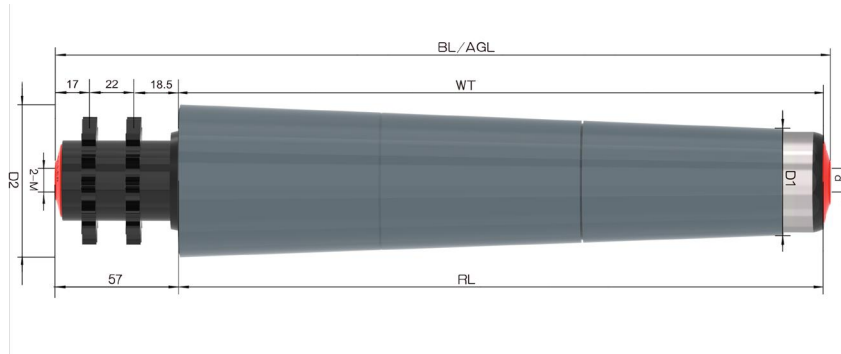
Remark:

Galvanized steel and stainless tube are available.



Pipe diameter and wall thickness	Axis center	Cone sleeve length	D1	D2
Φ50*1.5	11hex, Φ12/15	300	Φ56	Φ74.9
		350	Φ52.9	Φ74.9
		400	Φ56	Φ81.1
		450	Φ52.9	Φ81.1
		500	Φ56	Φ87.4
		550	Φ52.9	Φ87.4
		600	Φ56	Φ93.7
		650	Φ52.9	Φ93.7
		700	Φ56	Φ100
		750	Φ52.9	Φ100
		800	Φ56	Φ106.3
850	Φ52.9	Φ106.3		

D50 series — plastic chain wheel drive conical sleeve drum



- ★plastic steel chain wheel with self lubrication, completely maintenance free
- ★The drum is light and has good starting performance
- ★Suitable for low speed load conveying

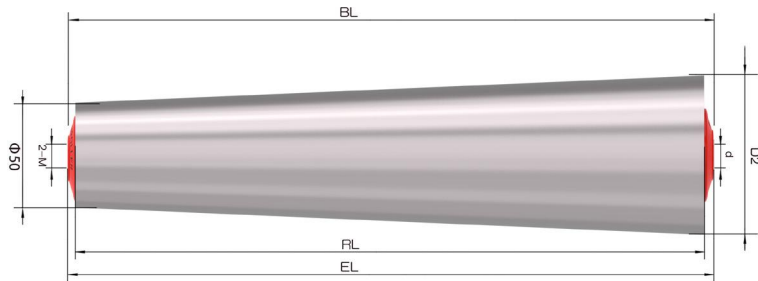
Remark:

Galvanized steel and stainless tube are available.

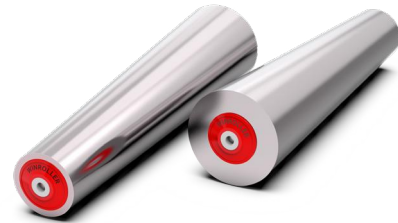


Pipe diameter and wall thickness	Axis center	Cone sleeve length	D1	D2
Φ50*1.5	11hex, Φ12/15	300	Φ56	Φ74.9
		350	Φ52.9	Φ74.9
		400	Φ56	Φ81.1
		450	Φ52.9	Φ81.1
		500	Φ56	Φ87.4
		550	Φ52.9	Φ87.4
		600	Φ56	Φ93.7
		650	Φ52.9	Φ93.7
		700	Φ56	Φ100
		750	Φ52.9	Φ100
		800	Φ56	Φ106.3
		850	Φ52.9	Φ106.3

D60 series — idle steel conical drum

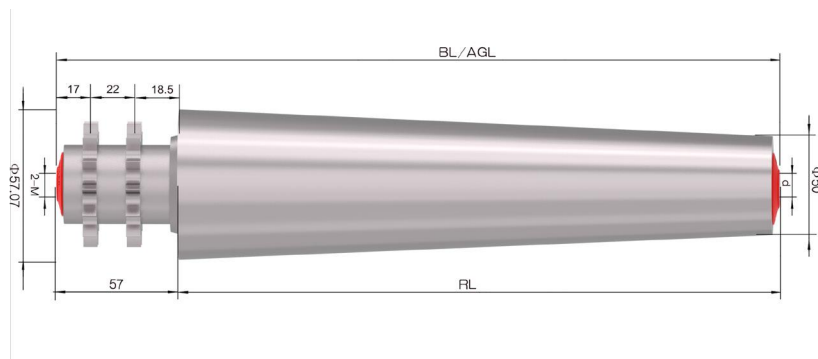


- ★Steel drum tube, strong and durable
- ★The standard taper is 3.6 degrees and can be customized
- ★Suitable for light load conveying, stable operation
- ★Low noise, shockproof and wear-resistant



Small end diameter	Bearing	Axis center	Conicity	Roller material
Φ50	6002	Φ12/15	Customized as required	steel, galvanization; stainless steel steel

D70 series — Steel chain wheel and steel conical drum



- ★Steel drum tube, strong and durable
- ★The standard taper is 3.6 degrees and can be customized
- ★Suitable for light load conveying, stable operation
- ★Low noise, shockproof and wear-resistant



Small end diameter	Axis center	Conicity	Roller material
Φ50	Φ12/15	Customized as required	steel, galvanization; stainless steel

Multi-wedge band matching table

Commonly used spacing and matching wedge tape: models are shown in the table below:



157 ~ 161 Center spacing — (mm)	Model of multi-ribbed belt	
	2groove	3groove
60 ~ 63	2PJ256	2PJ256
73 ~ 75	2PJ286	2PJ286
76 ~ 78	2PJ290	2PJ290
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

If you have technical problems,
welcome to exchange and discuss together.

