

Belt Conveyor Pulley

Products Overview

www.damonroller.com

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About Damon Industry



GLOBAL LEADING MANUFACTURER OF CONVEYOR ROLLERS

—Providing European local manufacturing, sales and services

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

Damon Industry, since its establishment, has always been committed to providing the highest quality conveyor rollers and services for a wide range of industries

Damon Industry has manufacturing bases in Asia, America and Australia, and providing local manufacturing, sales and services. Damon Industry has also set up a manufacturing base in Europe now, and has always been committed to be a high-quality supplier of conveyor rollers.

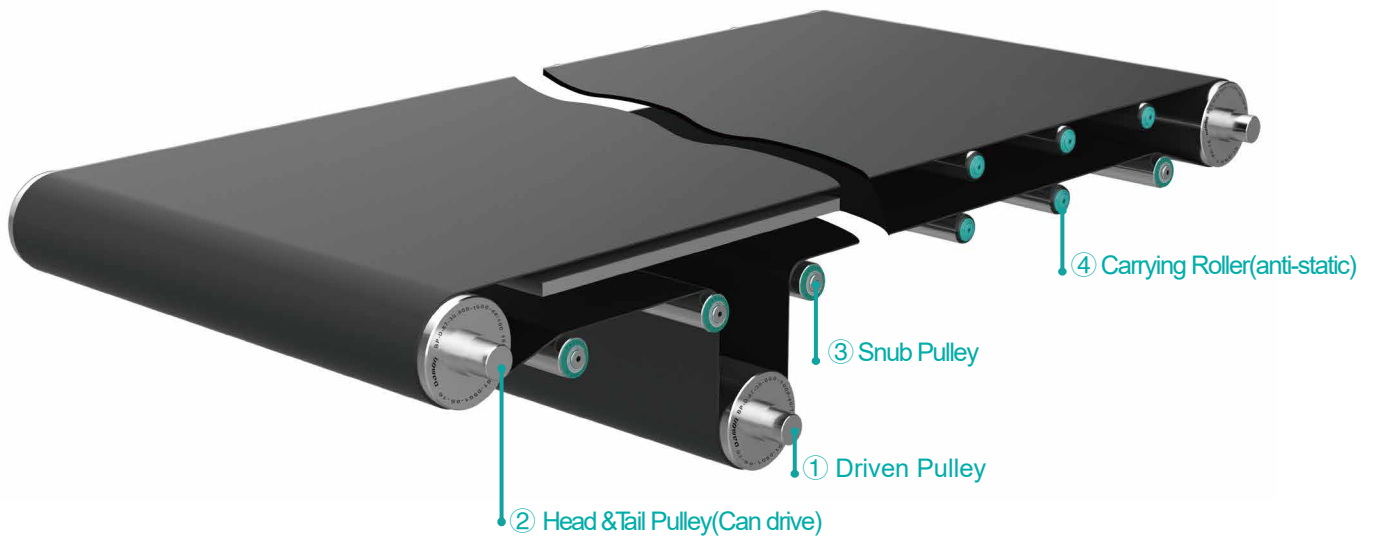
Damon Industry conveyor rollers are used in a variety of industries including food distribution, pharmacy, tobacco, clothing, postal express, logistics and distribution, manufacturing, rubber and airport industries. Damon Industry provides a vast range of reliable and innovative roller solutions. Our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

Globally we have gained the consistent trust of our customers. These customers include influential equipment manufacturing companies and logistics system integrators. We provide customers with over 40 different products covering a variety of specifications to suit user's different requirements. The customers of using Damon Industry rollers are over Europe, Asia, America, Australia and Africa, and this range is gradually expanding.

We not only provide high-quality rollers, but also provide a full range of quality services for customers all over the world. From introducing the complete information based ERP management system to the independent research and development of the online roller dimensional drawing system service, we are viewing our market from a brand new perspective and are pleased to share our ideas of quality and innovation with every customer.

With the mission of "Creating value for customer's logistics systems", Damon Industry will strive for the vision of becoming "The most influential core components supplier and service provider for the global materials handling industry".

Belt Conveyor Pulley One Station Solution



Through high intensity welding and precise processing craft, Damon Industry devote itself to offer you standardized belt-conveyor roller series with high intensity and quality. We could provide you one-stop solution for belt conveyor rollers, including carrier, head to tail roller, driven roller and tension roller.

① Driven Pulley:

Main driving component for centre drive belt conveyors:

Select BP-D series pulley (rotating shaft).

② Head & Tail Pulley:

Installed at each end of a belt conveyor according to the different drive type and structure:

a、Centre drive:

Change the belt direction: Select BP-R series pulley (fixed shaft) or DP-D series pulley (rotating shaft)

b、Head or Tail drive:

Drive Pulley: Select BP-D series pulley (rotating shaft)

Idler Pulley: Select BP-R series pulley (fixed shaft) or BP-D series pulley (rotating shaft).

③ Snub Pulley:

Used to increase the belt wrap angle for the driven pulley, tension and tracking the belt.

Select BP-R series pulley (fixed shaft) or 1200 series conveyor roller.

Be careful about the belt tensioning and siding force when using as redirection & tensioning.

④ Carrying Roller:

Used to support the belt, simplify structure and reduce friction:

Select 1200 series conveyor roller.

Drum Motor



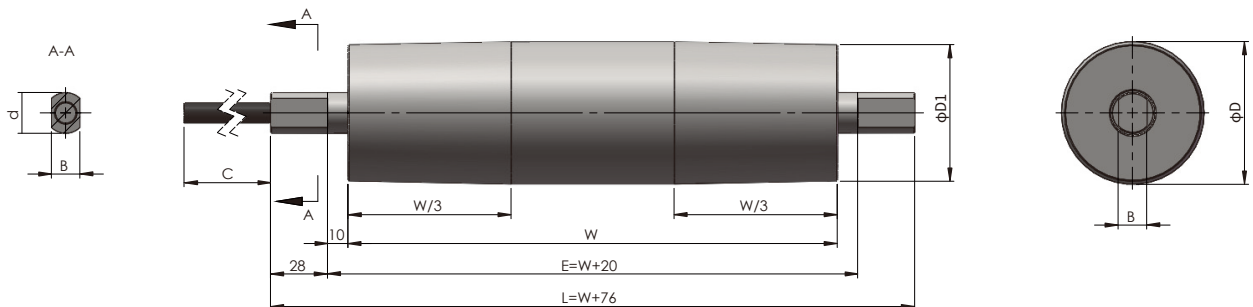
- Space-saving and easy installation
- Frequent starts and stops, up to 2000 cycles per hour
- Up to 95% efficiency, save energy consumption
- Cooling oilless design, no risk of oil leakage
- Direct drive motor technology, high dynamic response, high precision positioning

Basic Parameters

Roller Model	DMR67	DMR100	
Tube Dia.	67mm	100mm	
Rated Power	0.4kW	0.75kW	1.1kW
Rated Torque	4N·m	10N·m	15N·m
Rated Voltage	AC 1X220V (±10%) / 50Hz		
Length Range	300-1000mm	400-1400mm	500-1400mm
Speed Range	30~150m/min		
Working Method	Start-stop frequency ≤2000 cycles per hour, continuous running		

! Drum motor roller must be used with a driver and cannot be directly connected to the AC power supply.

Dimensions



Model	Tube Dia.(D)	Drum Shape(D1)	Shaft Dia.(d)	Milled Flat width(B)	Cable Length(C)
DMR 67	70mm	67mm	20mm	14~17mm	1000mm
DMR100	103mm	100mm	30mm	20~25mm	800mm

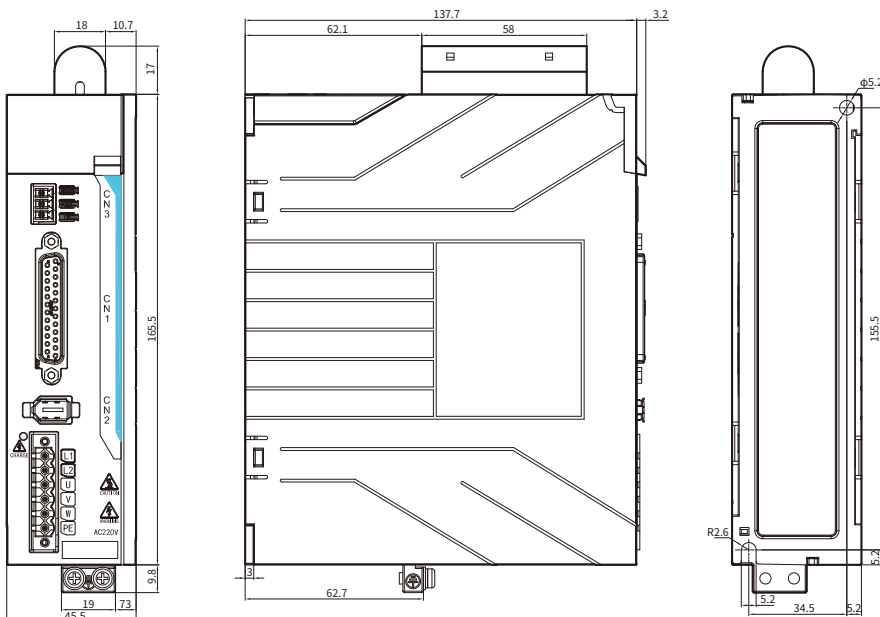


- Rapid response, precise position control
- Supports RS485, CANOPEN and EtherCAT bus protocols
- Adjustable parameter panel for real-time monitoring of Roller running status
- Meets long-distance roller cable

Drive Technical Data

Rated Voltage	AC 1X220V(±10%)
Rated Power	0.4kW / 0.75kW / 1.1kW
Start-stop Frequency	≤ 2000 cycles per hour
Control Mode	I/O & Bus
Bus Communication	RS485 / CANopen / EtherCAT
Maximum Extention Cable	15m

Dimensions



Drum Motor



- High starting torque and excellent dynamic
Ensure stable and reliable operation of the equipment
- No cooling oil, no risk of oil leakage
- 95% first-class energy efficiency, no-load
current is 10% of the rated current, saves on
electricity consumption

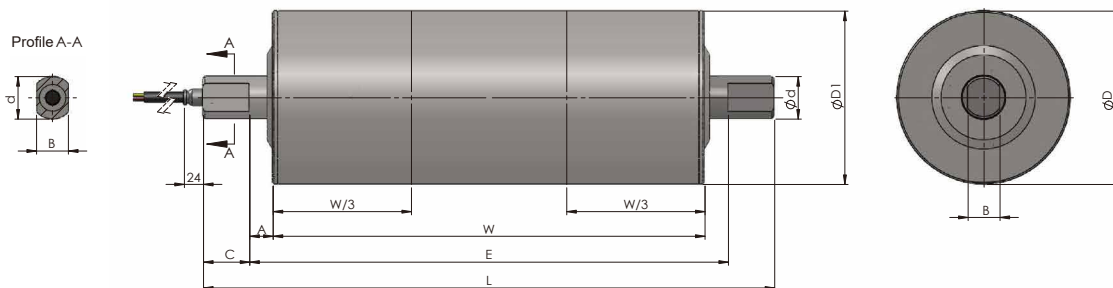
Basic Parameters

Roller Model	DMR138	DMR165	DMR216
Rated Voltage	AC 3X380V(±10%) / 50Hz		
Rated Power	1.82kW	2.55kW	
Rated Current	3.6A	4.9A	
Length Range	500~1100mm	800~1300mm	
Working Temperature	-5~40℃		
Ambient Humidity	10~90%RH(Non-condensation)		
IP Rating	IP54		

Performance Parameters

Product Model	DMR138	DMR165	DMR216
Rated Torque	61N·m	174N·m	278N·m
Belt Pull	884N	2109N	2574N
Current Range	30~90m/min	30~60m/min	
Load Capacity	43kg/m	60kg/m	
Belt Conveyor Length	≤6m	≤9m	≤12m
Maximum Belt Tension	800kg		

Product Dimensions (Zinc Plated)



Model	Roller Dia.(D)	Drum-Shaped(D1)	Shaft Dia.(d)	Milled Flat Width(B)	Milled Flat Length(C)	Milled Flat Distance(A)	E	L
DMR138	138mm	136mm	30mm	25mm	25mm	8.5mm	W+17	W+67
DMR165	165mm	163mm	40mm	30mm	43.5mm	21.5mm	W+43	W+130
DMR216	217mm	215mm	40mm	30mm	43.5mm	21.5mm	W+43	W+130



- Easy setting of direction, speed, acceleration, and deceleration
- Standard equipped with an assistant-type intelligent LCD keyboard
- Comprehensive protection functions including short circuit, phase loss, overload, overheat, etc.
- Detachable LCD keyboard for flexible and convenient external use
- Digital IO, bus communication (RS485, CANOPEN) And other control methods

Drive Technical Data

Model	DMR138	DMR165	DMR216
Rated Voltage	AC 3X380V 50~60Hz		
Rated Power	1.5kW	2.2kW	
Rated Current	4A	5.6A	
Noise Level	40dB		

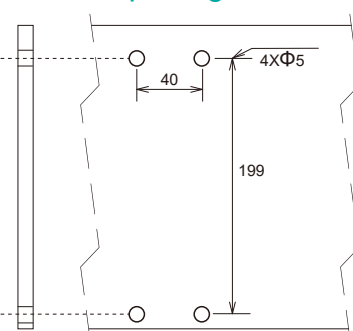
Drive Application Environment

Operating Temperature	-15~55℃
Relative Humidity	5~95%RH (non-condensation)
Vibration	Maximum 1mm (0.04in.) (5-13.2Hz), Maximum 7m/s ² (23ft/s ²) (13.2-100Hz) sinusoidal
Altitude	0-2000m (for TN, TT, IT grounding systems)
Installation Method	Thread Fixed Installation

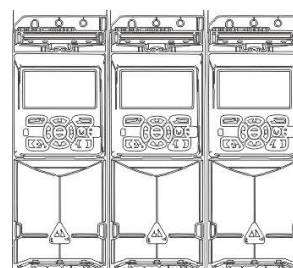
Dimensions



Electrical Mounting Board Opening Dimensions



Drive Installation Example



For optimal heat dissipation, side by side installation is preferred.

BP-D Series Pulley (Rotating Shaft)

• Customer Part No.

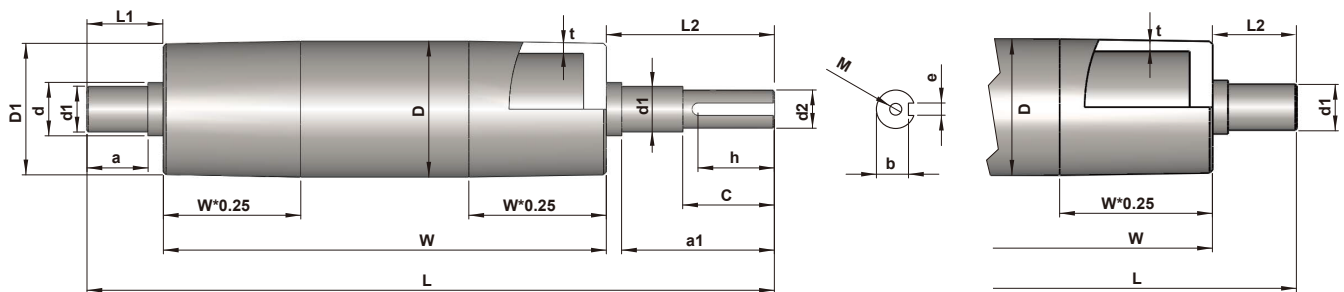


• Customer PO No.



- Thermal refining shaft
- Special welding equipment and technology
- New structure, strong and reliable

Dimensions(Steel Z/P)



Specifications

Series	Standard				Optional Optional shaft dia.(d1)	Length		
	Tube dia. (D)	Tube (t)	shaft dia. (d1)	Drum (D1)		W	L	L1/L2
06C	Φ59	(4.5)	Φ25	Φ58	Φ20	250~1300	≤1500	≤280
08K	Φ75	(4.5)	Φ30	Φ74	Φ25	250~1300	≤1500	≤280
					Φ35			≤185
08J	Φ87	(4.5)	Φ30	Φ85.6	Φ25	250~1300	≤1500	≤280
					Φ35			≤185
10B	Φ100	(6.0)	Φ30	Φ98	Φ25	250~1400	≤1600	≤280
					Φ35			≤185
11D	Φ112	(6.0)	Φ35	Φ110	Φ30	250~1400	≤1600	≤280
					Φ40			≤185, When ≥Φ40, ≤140
12A	Φ119	(6.0)	Φ35	Φ117	Φ40	250~1400	≤1600	≤185, When ≥Φ40, ≤140
13C	Φ130	(6.5)	Φ35	Φ127	Φ40	70~1800	≤2400	≤300
14K	Φ137	(6.5)	Φ35	Φ135	Φ40	70~1800	≤2400	≤300
15J	Φ156	(6.5)	Φ35	Φ153	Φ40	70~1800	≤2400	≤300
18K	Φ176	(8.0)	Φ40	Φ173	Φ45	70~1800	≤2400	≤300
20C	Φ200	(6.5)	Φ45	Φ196	Φ50/55	70~1800	≤2400	≤300
21J	Φ216	(8.5)	Φ50	Φ212	Φ55	70~1800	≤2400	≤300



Straight tube is available-not tapered ; "(t)" is not accurate data.

If there is dynamic balance requirement for products, please contact us.

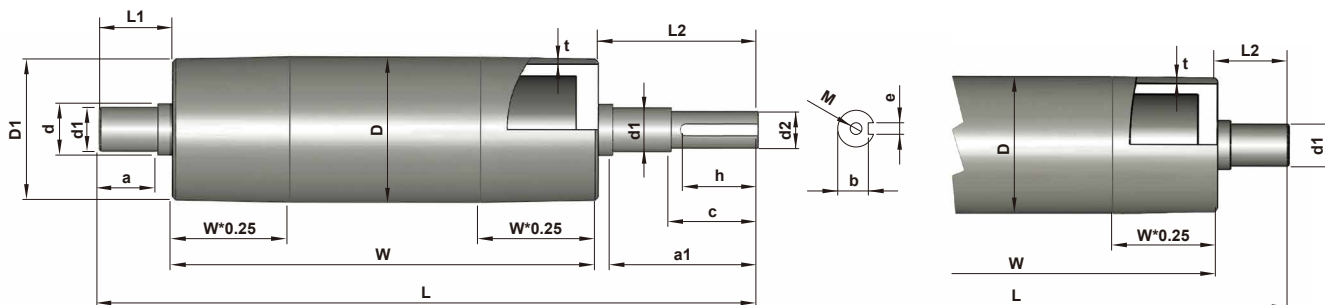
Surface treatment: zinc plated or anti-rust oil

Precaution of broken shaft: when installed by shaft through the motor, the torque that the shaft takes is quite big, please pay attention to the actual torque output and installation detail, otherwise, the shaft will break. Please contact us for details.

Precaution of abrasion of the shaft: 1, please install the bearing with frame, and make sure the screw is fastened.

2, Machine flat surfaces on both sides of the shaft, so as that the screws can reach the surfaces and thus be fastened.

Dimensions(Surface Polyurethane-PU)



Specifications

Standard configuration					Optional	Length		
Series	After PU coating (D)	PU layer thickness (t)	shaft dia. (d1)	Drum (D1)	Optional shaft dia.(d1)	W	L	L1/L2
08J	Φ87	(6.0)	Φ30	Φ85.6	Φ25	250~1400	≤1600	≤280
					Φ35			≤185
10B	Φ100	(6.5)	Φ30	Φ98	Φ25	250~1400	≤1600	≤280
					Φ35			≤185
11D	Φ112	(6.0)	Φ35	Φ110	Φ30	250~1400	≤1600	≤280
					Φ40			≤185, When ≥Φ40, ≤140
12A	Φ122	(5.0)	Φ35	Φ120	Φ40	250~1400	≤1600	≤185, When ≥Φ40, ≤140
13C	Φ130	(5.5)	Φ35	Φ127	Φ40	250~1400	≤1600	≤185, When ≥Φ40, ≤140
15J	Φ156	(6.0)	Φ35	Φ153	Φ40	70~1800	≤2400	≤300
18K	Φ176	(5.0)	Φ40	Φ173	Φ45	70~1800	≤2400	≤300
20C	Φ202	(5.0)	Φ45	Φ199	Φ50/55	70~1800	≤2400	≤300
21J	Φ216	(7.5)	Φ50	Φ212	Φ55	70~1800	≤2400	≤300

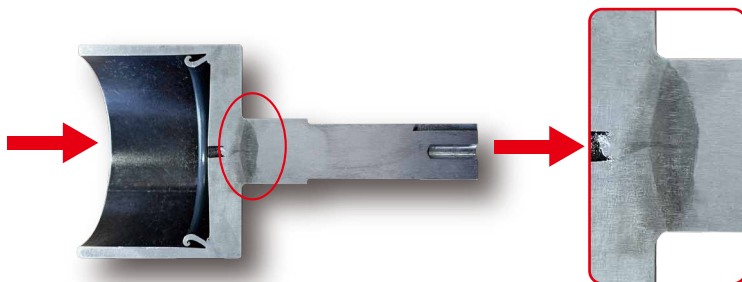
⚙ Straight tube is available-not tapered ; “(t)”is not accurate data.

Polyurethane (PU)color-yellow

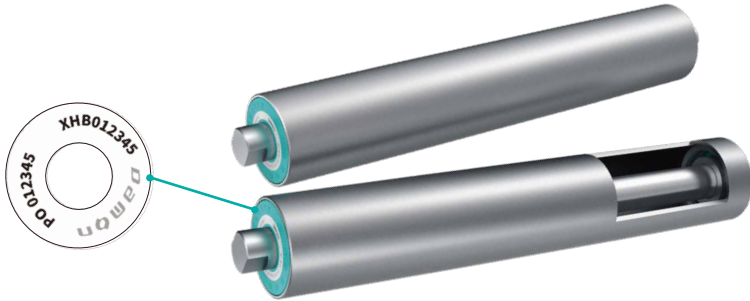
(If the pulley length is out of above, please contact us.)

Precaution of broken shaft: when installed by shaft through the motor, the torque that the shaft takes is quite big, please pay attention to the actual torque output and installation detail, otherwise, the shaft will break. Please contact us for details.

Precaution of abrasion of the shaft: 1, please install the bearier with frame, and make sure the screw is fastened.
2, Machine flat surfaces on both sides of the shaft, so as that the screws can reach the surfaces and thus be fastened.

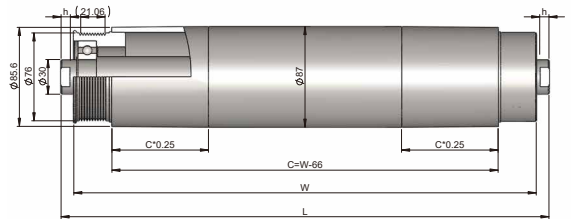
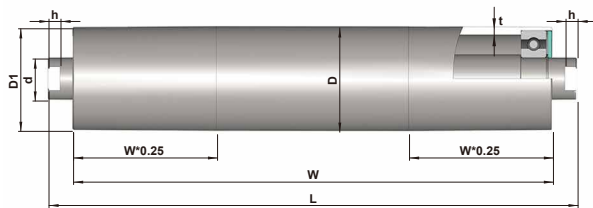


BP-R Series Pulley (Fixed Shaft)



- Configured with precision bearings
- Precision machining, smooth rotation
- High load capacity, reliable and durable.

Dimensions(Steel Z/P)



Usually used for climbing belt conveyor

Specifications

Standard						Length			Remarks
Series	Tube dia. (D)	Tube (t)	shaft dia. (d)	Bearing type	Drum (D1)	W	L	Shaft unilateral outcrop	
05D	Φ51	(3.0)	Φ20	6204	/	450~1300	≤1500	≤100	
06C	Φ59	(4.5)	Φ25	6205	Φ58	70~1300	≤1500	≤100	
07C	Φ69	(6.0)	Φ30	6206	Φ68	70~1300	≤1600	≤150	
08K	Φ75	(4.5)	Φ25	6005	Φ74	120~1300	≤1500	≤100	
08C	Φ79	(4.5)	Φ25	6005	Φ77.6	120~1300	≤1500	≤100	
08J	Φ87	(4.5)	Φ25	6205	Φ85.6	120~1300	≤1500	≤100	
10B	Φ100	(6.0)	Φ30	6306	Φ98	120~1800	≤2100	≤150	
11D	Φ112	(6.0)	Φ30	6306	Φ110	120~1800	≤2100	≤150	Steel Poly-vee
			Φ35	6307					
12A	Φ119	(6.0)	Φ30	6306	Φ117	120~1800	≤2100	≤150	
08J	Φ87	(4.5)	Φ30	6206	Φ85.6	180~1300	≤1600	≤150	



Straight tube is available-not tapered ; “(t)”is not accurate data.

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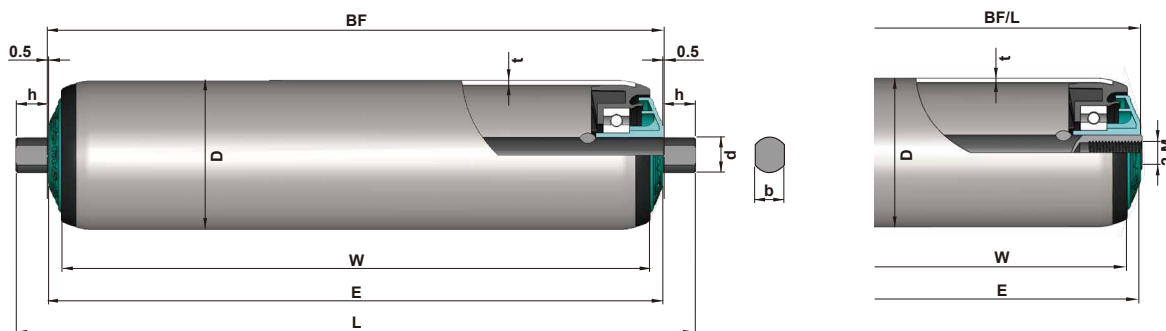
Surface treatment:zinc plated or anti-rust oil

1200 Series Conveyor Roller



- Configured with polymer bearing housing and end cap
- Nice appearance, quiet running
- Optional for tubes and installations
- Anti-static is standard

Dimensions



Specifications

Tube dia. (D)	Standard Shaft Dia(d)	Dimension relation		Surface treatment	Recommended application location
		BF	L		
Φ50	Φ12/15	BF=W+10	L=W+31	Steel Z/P	4
	Φ17	BF=W+10	L=W+31	SS	4
Φ60	Φ12/15	BF=W+10	L=W+31	Steel Z/P	4
	Φ17	BF=W+10	L=W+31	SS	3&4
Φ76	Φ20	BF=W+12	L=W+41	Steel Z/P	3&4
Φ80	Φ20	BF=W+12	L=W+41	Steel Z/P	3&4

 Be careful about the belt tensioning and siding force when using as redirection & tensioning.



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