



Jul 2025

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# Excel Conveyors

## Conveyors & Rollers

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FACTORY AUTOMATION

Our Website  
[www.Econveyors.in](http://www.Econveyors.in)





Rolling Your Growth

## About us

Excel Conveyors, established in year 2016 , Serving the OEMs from last 8 Years , is rapidly growing and in the field of conveyors rollers. In short span of time, we have gained customer confidence in terms of quality and delivery.

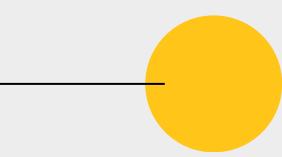


Our customers are packaging equipment manufacturers and integrators which serve to various industries as distribution and logistics, pharmaceuticals, automobiles, chemicals, Food and warehousing industry.

Our mission is to "drive your profits" by providing rollers at fastest speed resulting ultimate customer satisfaction.

Our Product range includes various types of Conveyor Rollers for light weight as well heavy weight applications.

We make conveyor rollers for roller conveyors to carry carton boxes, plastic crates, totes, drums, pallets with jumbo bags, etc.



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# Industries we serve



We serve various industries such as

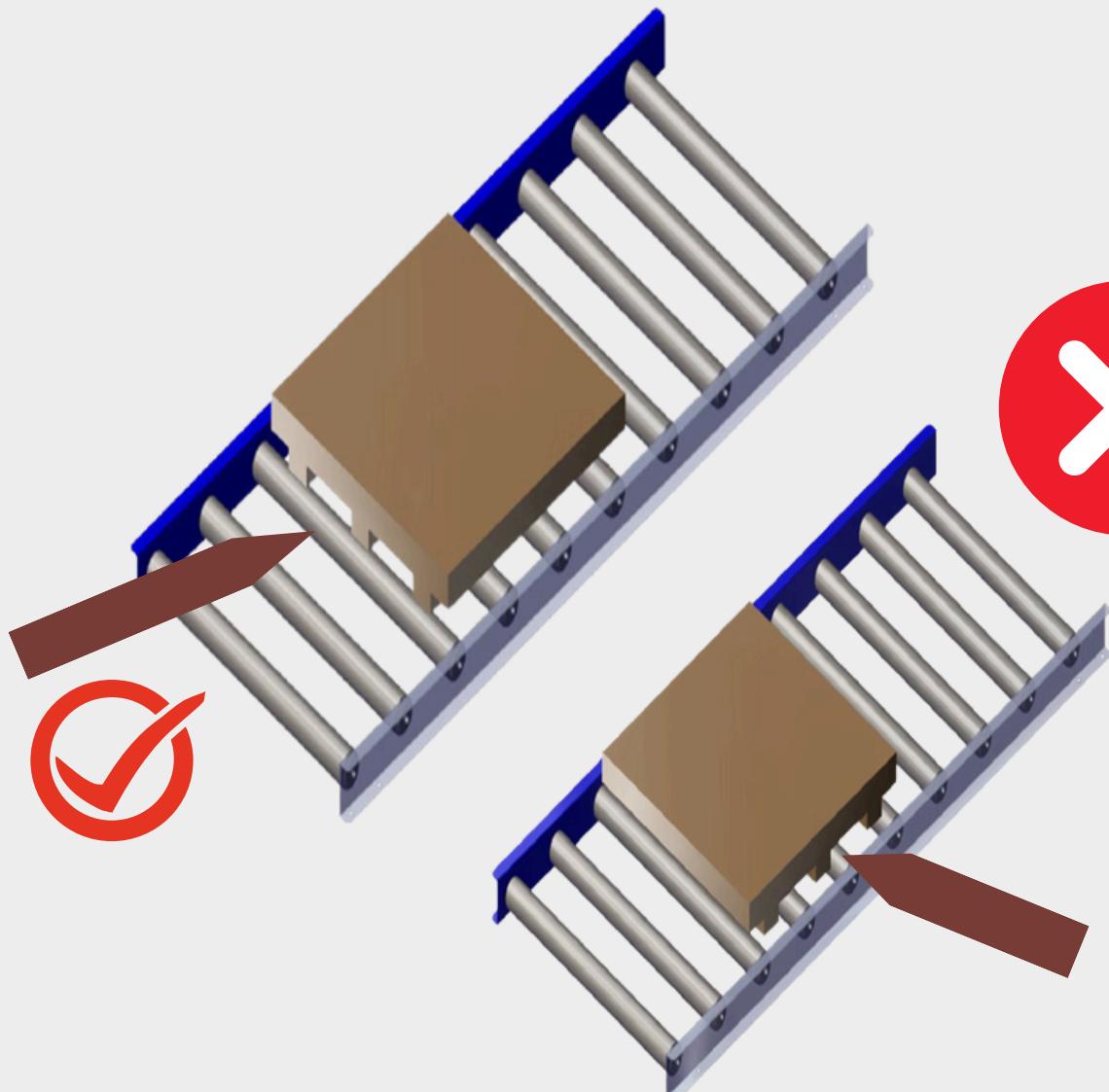
- Food
- Pharmaceuticals
- Logistics
- Warehouse
- Cold Storage
- Dairy
- Security Equipment – X Ray Scanners Etc
- Chemicals
- FMCG
- Automobiles & Ancillary
- Packaging
- Parcel Sorters



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# Product Suitability

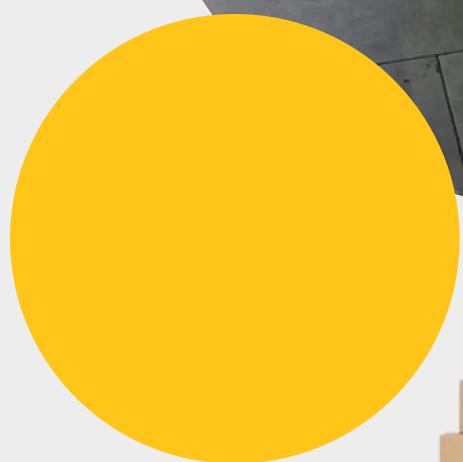
Products with even and smooth surfaces are suitable to run on the roller conveyors. Products with uneven surfaces and not suitable to run on the roller conveyors.





# Product suitability

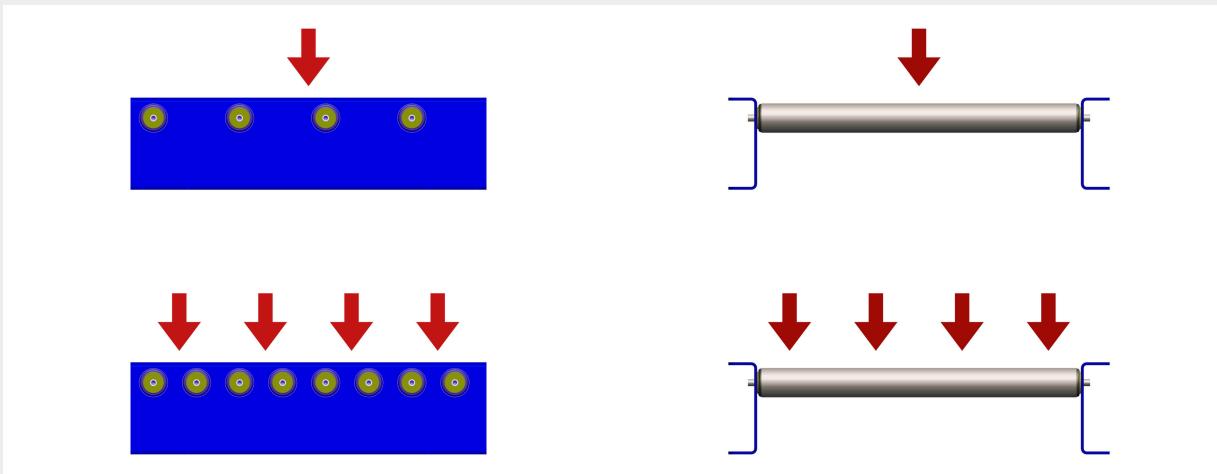
Generally below mentioned products are suitable to convey on rollers





## Load & Pitch Calculations

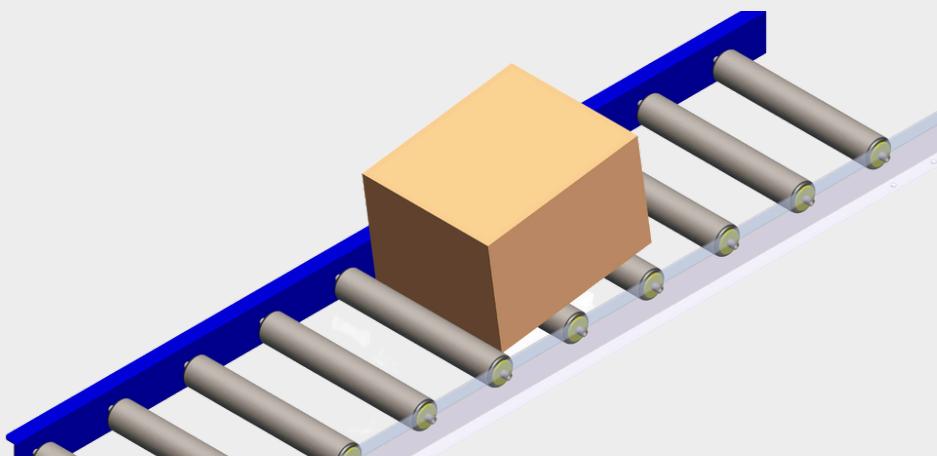
Load capacities mentioned are distributive and not concentric. The product weight is divided over the number of the rollers below the product. E.g. if a carton box of 50kg is having 5nos of rollers below it, roller capacity should be 5kg.





## Load & Pitch Calculations

For smooth product running, minimum 3 rollers should always be considered below the product, to avoid product toppling. So the ( product length / 3 ) + 1 = ( Rollers below the product ). If there are less than 3 rollers below the product, it may get toppled and smooth running may not happen.



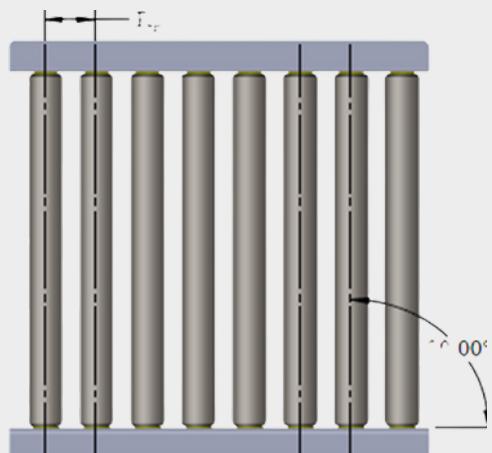
[Please click here to read blog on this.](#)

# Designing of Roller Conveyors

- Product suitability for roller conveyors should be validated first.
- If there are uneven concentration of load inside the container, closer pitch of the rollers should be considered.
- Inclined product conveying should be avoided with roller conveyors.



- Roller Pitch for sprocket driven rollers should be calculated based on the chain pitch.
- Rollers should be perfectly 90 degree mounted to frame to avoid product direction change.
- There should be minimum 3 Rollers below the product to make it stable. So the number of rollers below product should be  $(\text{Conveying Length} / 3 + 1)$
- For metal to metal contact should be avoided as far as possible to avoid wearing out of rollers.
- Extra care needs to be taken while design of Extra Light as well as Extra Heavy weight products.



# Designing of Chain Driven Live Roller Conveyors



- While design of Roller Conveyor, the roller pitch plays a important role.
- The roller pitch must be in multiples of Chain Pitch.
- E.g. if you are using 3/8" chain, so roller pitch must be in multiples of 9.525mm.
- This is because, there is no tensioning arrangement in rollers. So the roller pitch should be so optimized perfectly that all the rollers will run in sync.
- For chain joining, there two options are available. Half Lock and Full Lock. So in any case, roller pitch in multiples of chain pitch is to be selected.



Please read more about selection of roller pitch



# Load Capacity of Conveyor Rollers

Load Capacity is subjective to type of load, working conditions, environmental conditions etc. Kindly read more information on our website.



[Please click here to read before using the table below.](#)

Roller Dia x Shaft	Length in mm →							
	200	300	400	600	800	1000	1300	1600
25 x 8	30	20	10					
32 x 8	40	30	20					
38 x 8	50	40	30					
32x12	100	80	50	30				
38x12	150	120	90	60	30			
51 x 12	170	170	150	120	100	80	50	20
60x2.5x1 7	450	400	400	300	300	300	200	200
76x17	500	450	400	400	400	350	350	300
89 x 20	500	500	500	500	500	500	400	300
	Load Capacity in Kgs →							



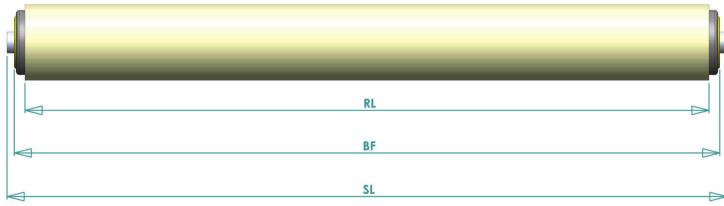
## Disclaimer



Excel Conveyors Reserves the right to change the dimensions or any other information with notice.

## Type-110-Gravity / Idler Rollers

### Construction



$$BF = RL + 12$$

$$SL = RL + 20$$

#### Features

- Materials - UPVC White
- Bearing Housing - Polymide Molded
- Sizes - Roller Dia. & Shaft combination as per standard table below
- Length - made to order
- Surface Treatments
  - Not Applicable
- Working Temp - Room Temp.

Type	Roller Dia	Thk	Shaft Dia	Drive	Bearing	Download link
110	42.2	3-4	12	Gravity	6002zz	
110	60.3	3-4	12	Gravity	6002zz	



Our Products

## Type-120-Gravity / Idler Rollers Construction



$$BF = SL = RL + 15$$

### Features

- Materials - Carbon Steel / Stainless Steel
- Bearing Housing - Polymide Molded
- Sizes - Roller Dia. & Shaft combination as per standard table below
- Length - made to order
- Load Capacity - reference table below
- Surface Treatments
  - Carbon steel - Zinc Plated, Chrome plated
  - SS - Mirror Polished
- Coatings - PU Coated, PVC Sleeve
- Working Temp - Room Temp.



Our Products

## Type-120-Gravity / Idler Rollers

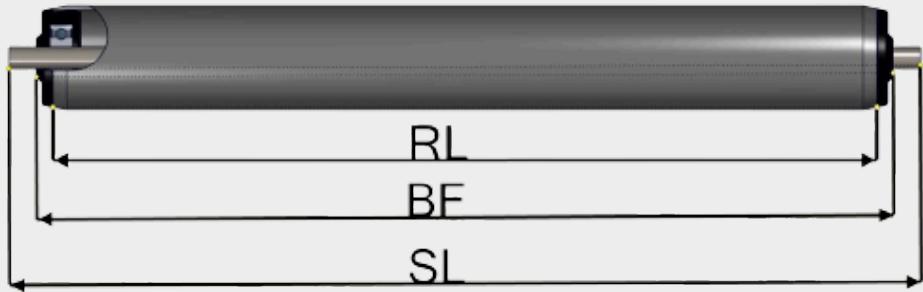
### Dimensions



Type	Roller Dia.	Thk	Shaft Dia	Drive	Bearing
120	31.75	1.6	12	Gravity	61802 zz
120	38.1	1.6	12	Gravity	61902 zz
120	50.8	1.6 / 2	12	Gravity	6002zz
120	50.8	1.6 / 2	15	Gravity	6002zz
120	60.3	1.6 / 2.5	15	Gravity	6004zz
120	60.3	1.6/2.5	17	Gravity	6004zz
120	76.2	3	17/20	Gravity	6004zz
120	89.9	3	20	Gravity	6204zz



Our Products  
**Type-130-Gravity / Idler Rollers**  
Construction



$$BF = SL = RL + 12$$

#### Features

- Materials - Carbon Steel / Stainless Steel
- Bearing Housing - Polymide Molded
- Sizes - Roller Dia. & Shaft combination as per standard table below
- Surface Treatments
  - Carbon steel - Zinc Plated, Chrome plated
  - SS - Mirror Polished
- Working Temp - Room Temp.

#### Applications

Light weight applications / X-Ray Scanners / Bridge Rollers between conveyors / Film Support Rollers

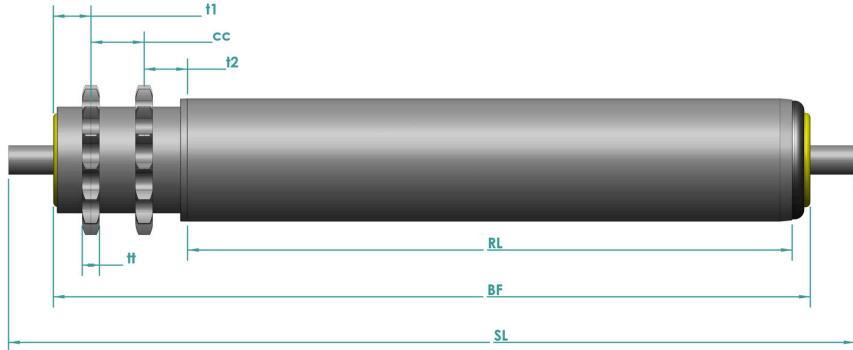
Type	Roller Dia	Thk	Shaft Dia	Drive	Bearing
130	25.4	1.6	6	Gravity	626zz
130	31.75	1.6	8	Gravity	628zz
130	38.1	1.6	8	Gravity	628zz
130	50.8	1.6	12	Gravity	6001zz
130	60.3	1.6	12	Gravity	6001zz



Our Products

## Type 200-Fixed Drive Sprocket Driven Rollers

Chain Driven Rollers  
Construction



Roller Dia	Sprocket	Chain Size	tt	t1	cc	t2	OD	PCD
38.1	3/8" x 15z	06B	5.2	9.5	20	20	49	45.85
50.8	1/2" x 14z	08B	7.1	15	26	18	61.8	57.07
60.3	5/8" x 15z	10B	8	19.5	22	12	83	76.4
76.2	5/8" x 15z	10B	8	16.5	22	15	83	76.4
89.9	5/8" x 15z	10B	8	16.5	22	15	83	76.4

### Features

- Materials - Carbon Steel / Stainless Steel
- Bearing Housing - Polymide Molded
- Sizes - Roller Dia. & Shaft combination as per standard table below
- Length - made to order
- Surface Treatments
  - Carbon steel - Zinc Plated, Chrome plated
  - SS - Mirror Polished
- Coatings - PU Coated, PVC Sleeve



Our Products  
**Type 200-Sprocket Driven Rollers**  
 Chain Driven Rollers  
 Dimensions

Type	Roller Dia.	Thk	Shaft Dia	Drive	Bearing
200	38.1	1.6	12	3/8" x 15z ( 06B-1)	61902 zz
200	50.8	1.6 / 2	12	1/2" x 14z ( 08B-1)	6002zz
200	50.8	1.6 / 2	15	1/2" x 14z ( 08B-1)	6002zz
200	50.8	1.6	12	1/2" x 8z ( 08B-1)	6002zz
200	60.3	1.6 / 2.5	15	1/2 " x 14z ( 08B-1)	6004zz
200	60.3	1.6 / 2.5	17	1/2 " x 14z ( 08B-1)	6004zz
200	60.3	1.6/2.5	20	5/8" x 15z ( 10B-1)	6004zz
200	76.2	3	17/20	5/8" x 15z ( 10B-1)	6004zz



Our Products

## Type 210-Timing Belt Driven Rollers

Dimensions



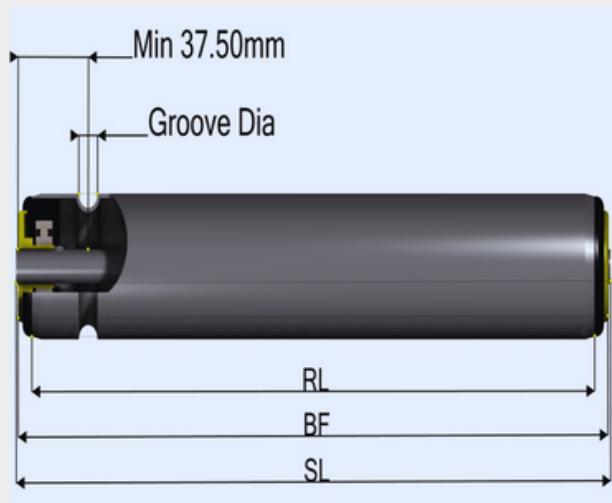
Type	Roller Dia.	Thk	Shaft Dia	Drive	Belt Width	Bearing
210	31.75	1.6	12	3Mx 32z	9mm	61802zz
210	38.1	1.6	12	3M X 32Z	9mm	61902 zz
210	50.8	1.6 / 2	12 / 15	8M X 20Z	20mm	6002zz
210	60.3	1.6 / 2.5	12 / 15/ 17	8M X 20Z	20mm	6002zz
210	76.2	3	12 / 15 / 17	8M X 20Z	20mm	6002zz



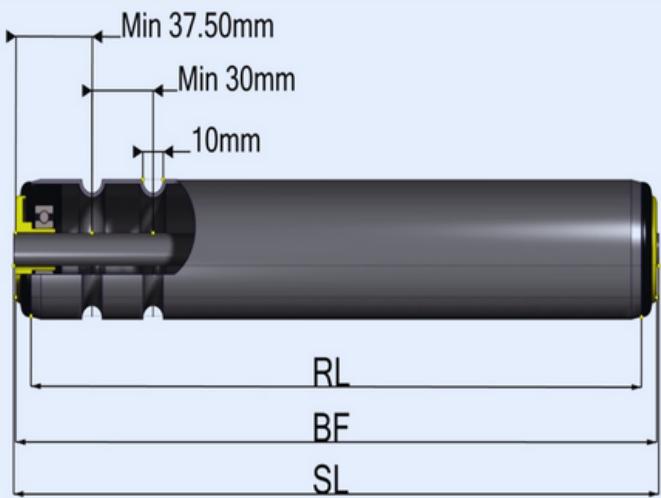
Our Products

## Type 301 / 302 Grooved Rollers

Round Belt Driven Rollers  
Construction



- Materials - Carbon Steel
- Bearing Housing - Polymide Molded
- Roller Dia. - 50.8 x 1.6mm thick
- Load Capacity chart as per below
- Carbon steel - Zinc Plated, Chrome plated
- Coatings - PU Coated, PVC Sleeve
- Groove Distance as per demand
- $BF = RL + 15$
- $SL = RL + 16$  Minimum



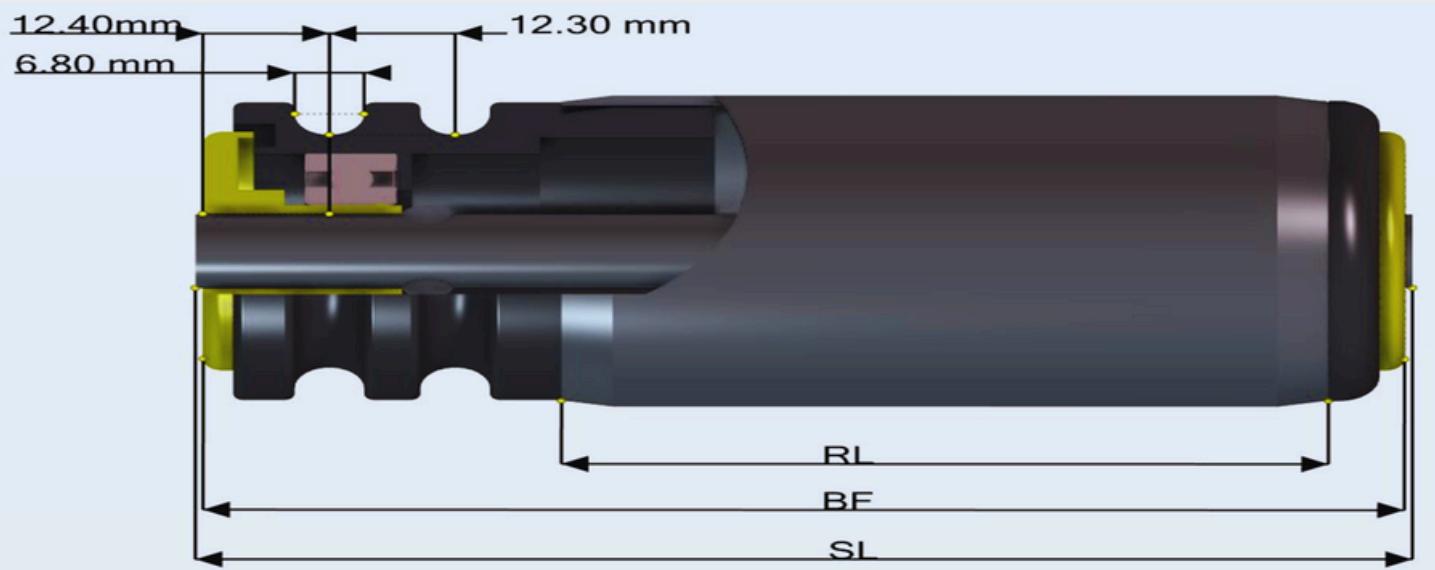


Our Products

## Type 300-Groove Pulley Rollers

Round Belt Driven Rollers  
Construction

- Materials - Carbon Steel / Stainless Steel
- Bearing Housing - Polymide Molded
- Roller Dia. - 50.8 x 1.6mm thick
- Load Capacity chart as per below
- Carbon steel - Zinc Plated, Chrome plated
- Coatings - PU Coated, PVC Sleeve
- Drive - Groove Pulley
- BF = RL + 43
- SL = RL + 44 Minimum

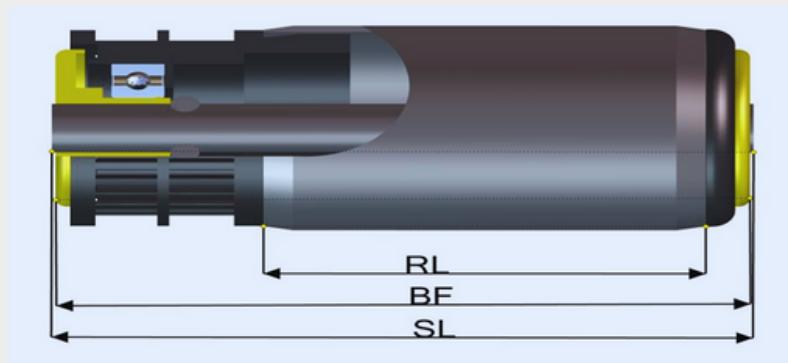




Our Products

## Type 310-Timing Pulley Rollers

Belt Driven Rollers



Type	Roller Dia	Thk	Shaft Dia	Drive	Bearing	Downl oad
310	50.8	1.6	12	Timing Pulley 5M x 28z	6002zz	<a href="#">Click here</a>

- Materials - Carbon Steel / Stainless Steel
- Bearing Housing - Polymide Molded
- Roller Dia. - 50.8 x 1.6mm thick
- Timing Pulley - 5M x 28Teeth
- Surface Treatments for Carbon steel - Zinc Plated, Chrome plated
- Surface Treatment for SS - Mirror Polished
- Coatings - PU Coated, PVC Sleeve
- Works at Room Temp
- BF = RL + 43
- SL = RL + 44 Minimum



Our Products

## Type 520 -Power & Free Rollers

Accumulation Rollers



Type	Roller Dia	Thk	Shaft Dia	Drive	Bearing
520	50.8	1.6	12	1/2" x 14z	6002zz

- Materials - Carbon Steel / Stainless Steel
- Bearing Housing - Polymide Molded
- Roller Dia. - 50.8 x 1.6mm thick
- Drive - 1/2" x 14z
- Accumulation by - Polymide Bush
- Surface Treatments for Carbon steel - Zinc Plated, Chrome plated
- Surface Treatment for SS - Mirror Polished
- Coatings - PU Coated, PVC Sleeve
- Works at Room Temp
- BF = RL + 43
- SL = RL + 44 Minimum



# Our Credentials

- Manufacturer and exporter of Conveyor Rollers
- 8th Year in the market
- 1 Lac + Rollers running in the market
- Supplying to all over India to more than 300 + OEMS
- Growing 30% YOY
- Serving automobile, Food, Chemical pharma industry



# This is all about **Excel Conveyors Rollers**



+91-9822957645



+91-9822957645



[sales@Econveyors.in](mailto:sales@Econveyors.in)



[www.Econveyors.in](http://www.Econveyors.in)



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Excel Conveyors

Gat No 1551, Sonawane Vasti, Dehu Alandi Road,  
Chikhali

Pune 411062

India

