



.....conveying non-stop movements since 1988



Curve Convey Solution

CURVE 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 another roller. The roller axis is installed in a certain angle (1/2 conical degree). While the roller surface keeps horizontal.

Recommended Curved Radius of tapered Roller

Series	Taper	Small Dia.	Turning Radius
NGA -1600	3.6°	Ø56 mm	880 mm
NGA -1500	3.6° optional	Ø50 mm	790 mm
NGA -2640	3.6°	Ø56 mm	820 mm
NGA -2660	3.6°	Ø56 mm	850 mm
NGA -2650	3.6°	Ø56 mm	850 mm
NGA -2624	3.6°	Ø56 mm	880 mm
NGA -2521	3.6° optional	Ø50 mm	790 mm

Roller Pitch:

Decided by the goods, but need to follow the principle of Min. 3 rollers support the goods at any moment. Special notice is needed as below:

1. The space between rollers could not be too close. In installation, to avoid mutual interference of rollers when running.
2. Double sprocket tapered roller still need to follow the principle of pitch choice of double sprocket roller. Pitch should calculate by outboard sprocket.
3. When curve convey adopts chain drive, to improve the drive, the included angle between tapered rollers should not exceed 5 °.
4. For NGA-2650 series tapered roller, the recommended pitch of MS-vee wheels is 73.7 mm





You could find the products in the catalogue according to their different features:

Product Features	Series	Diameter
Tapered sleeve, nice, low noise	NGA -1600	Ø 56
Tapered sleeve, O-Belt drive, light duty convey, Grooves position customized	NGA -2640	Ø 50
Tapered sleeve, O-Belt drive, light duty convey, steady running	NGA -2660	Ø 50
Tapered sleeve, MS-vee drive, middle duty convey, high speed, low noise	NGA -2650	Ø 56
Tapered sleeve, MSsprocket, middle duty convey, nice, low noise	NGA -2624	Ø 56
MS tube, middle duty convey, strong durable	NGA -1500	Ø 50
MS tube, middle duty convey, strong durable	NGA -2521	Ø 50



NGA -1600 Series

Gravity Tapered Sleeve Roller

Product Features

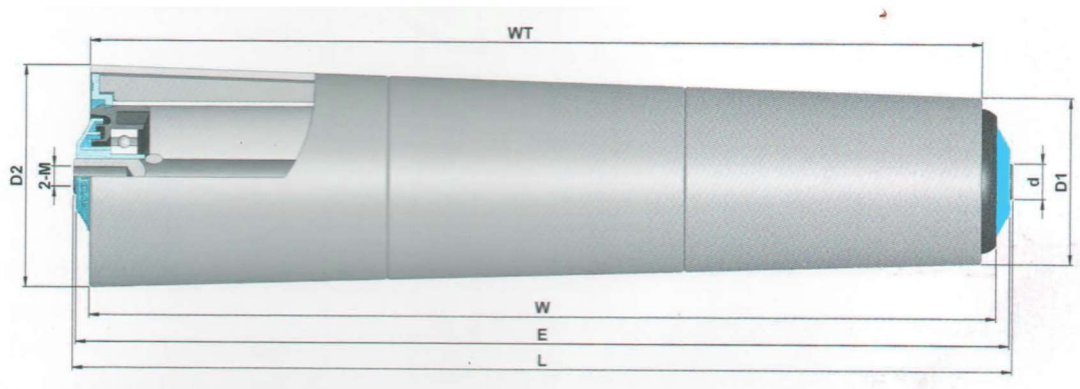
1. Based on the NGA-1200 series, covered with polypropylene (PP) taper sleeve; abrasion resistance, low noise, shockproof, not influenced by change of temperature and climate.
2. Light weight, easy start-up.
3. Precision ball bearing MS bearing housing, end cap forms the bearing unit which is very important. 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 operation environment.
5. Temperature range: 0 to +40°C

Parameters

Bearing Unit	
Bearing Housing	MS Housing
End Cap	Polypropylene
Precision Ball Bearing	ZZ

NGA -1600 Series

(Female Thread)



Tube Dia. (D)	Shaft Dia. (d)		
Ø50	Ø12	$E=W+9$	$L=W+11$



Tube	W	Bearing	Shaft Dia (d)
MS, Stainless steel, Zinc-plated, Tapered sleeve	230-305	ZZ	Ø12 (M 8 X 15)
	330-405	ZZ	Ø12 (M 8 X 15)
	430-505	ZZ	Ø12 (M 8 X 15)
	530-605	ZZ	Ø12 (M 8 X 15)
	630-705	ZZ	Ø15 (M 8 X 15)
	730-805	ZZ	Ø15 (M 8 X 15)

NGA -2640 Series

O-Belt tapered Sleeve Roller

Product features

1. Based on the NGA-2230/2240 series, covered with polypropylene (PP) tapered sleeve; abrasion resistance, low noise, shockproof, not influenced by change of temperature and climate.
2. Light weight, easy start-up.
3. Except standard type, the position and number of grooves could be customized.
4. 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 300N.
5. Precision ball bearing MS bearing housing, end cap forms the bearing unit which is very important. It is not only for good looking but also further more for the smooth and quiet running.
6. The end cap of roller resists dust and water splash well in operation environment.
7. Temperature range: 0 to +40°C

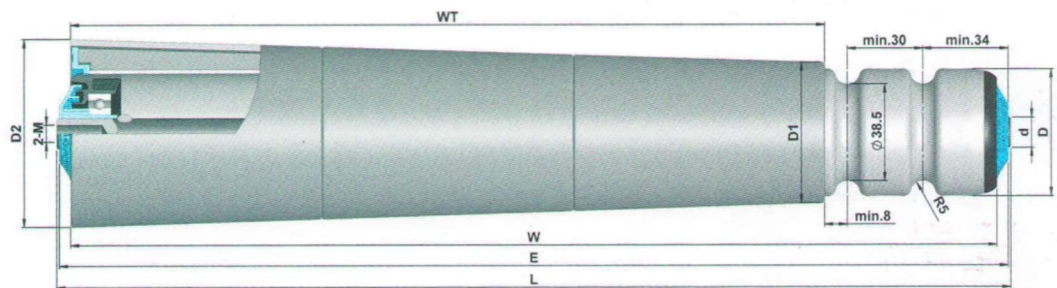
Parameters

Bearing Unit	
Bearing Housing	MS Housing
End Cap	Polypropylene
Precision Ball Bearing	ZZ



NGA-2640 Series

(Female Thread)



Tube Dia. (D)	Shaft Dia. (d)		
Ø50	Ø12 /15	E=W+9	L=W+11

Tube	W	Bearing	Shaft Dia (d)
MS, Zinc-plated, Tapered sleeve	300-370	ZZ	Ø12 (M 8 X 15)
	400-470	ZZ	Ø12 (M 8 X 15)
	500-570	ZZ	Ø12 (M 8 X 15)
	600-670	ZZ	Ø15 (M 8 X 15)
	700-770	ZZ	Ø15 (M 8 X 15)
	800-870	ZZ	Ø15 (M 8 X 15)



NGA -2660 (Series)

O-Belt wheel tapered sleeve roller

Product features

1. Based on the NGA- 2260 series, covered with polypropylene (PP) tapered sleeve, abrasion resistance, low noise, shockproof, not influenced by change of temperature and climate.
2. Light weight, easy start-up.
3. Moving the "O-belt" wheel to the end of the roller, make it separate between drive space and convoy space, avoid the interference between "O-belt" and conveying goods, also avoid the oil from the surface of goods polluting the "O-belt"
4. Because it is not grooving on the tube, the tube will not have any distortion, and the roller will run more smoothly.
5. The load capacity of roller is depended on the driving power of "O-belt" and the transmission structure (line shaft drive is higher than hook-ups). Reference data is normally 300N.
6. Precision ball bearing MS bearing housing, end cap forms the bearing unit which is very important. It is not only for good looking but also further more for the smooth and quiet running.
7. The end cap of roller resists dust and water splash well in operation environment.
8. Temperature range: 0 to +40°C

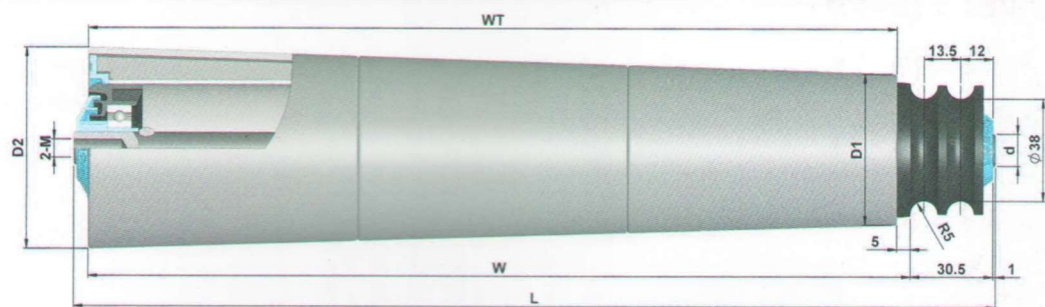
Parameters

Bearing Unit	
Bearing Housing	MS Housing
End cap	Polypropylene
Precision Ball Bearing	ZZ

Driving Element	
O –Belt wheel	MS

NGA-2660 Series

(Female Thread)



Tube Dia. (D)	Shaft Dia. (d)		
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Ø50	Ø12 /15	E=W+9	L=W+37
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Tube	W	Bearing	Shaft Dia (d)
MS, Zinc-plated, Tapered sleeve	230-305	ZZ	Ø12 (M 8 X 15)
	330-405	ZZ	Ø12 (M 8 X 15)
	430-505	ZZ	Ø12 (M 8 X 15)
	530-605	ZZ	Ø15 (M 8 X 15)
	630-705	ZZ	Ø15 (M 8 X 15)
	730-805	ZZ	Ø15 (M 8 X 15)

NGA-2650 Series

MS -vee Tapered Roller

Product features

1. Based on the NGA-2250 series, covered with polypropylene (PP) tapered sleeve; abrasion resistance, low noise, shockproof, not influenced by change of temperature and climate.
2. Light weight, easy start-up.
3. The assembly of MS-vee wheel and tube make it separate between drive space and convoy space, avoid the effect of oil from the surface of conveying goods to the MS-vee belt.
4. MS-vee belt, pitch 2.34mm.
5. The different pitch (centre distance between rollers) requires different type of poly-vee belt.
6. Precision ball bearing MS bearing housing, end cap forms the bearing unit which is very important. It is not only for good looking but also further more for the smooth and quiet running.
7. The end cap of roller resists dust and water splash well in operation environment.
8. Temperature range: 0 to +40°C

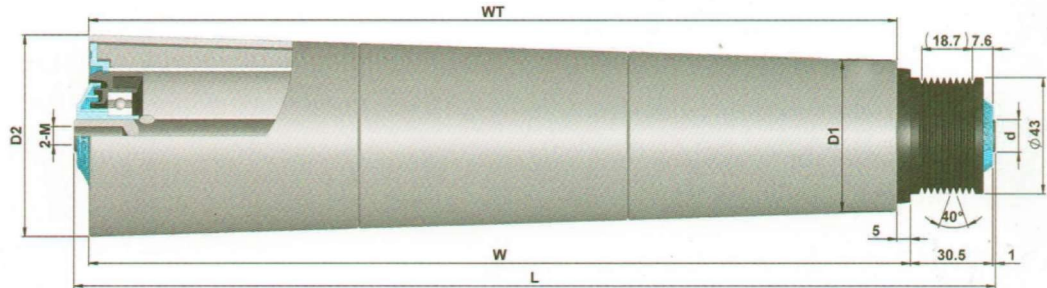
Parameters

Bearing Unit	
Bearing Housing	MS Housing
End cap	Polypropylene
Precision Ball Bearing	ZZ

Driving Element	
MS-vee wheel	MS

NGA-2650 Series

(Female Thread)



Tube Dia. (D)	Shaft Dia. (d)		
Ø50	Ø12 /15	$E=W+9$	$L=W+37$

Tube	W	Bearing	Shaft Dia (d)
MS, Zinc-plated, Tapered sleeve	230-305	ZZ	Ø12 (M 8 X 15)
	330-405	ZZ	Ø12 (M 8 X 15)
	430-505	ZZ	Ø12 (M 8 X 15)
	530-605	ZZ	Ø15 (M 8 X 15)
	630-705	ZZ	Ø15 (M 8 X 15)
	730-805	ZZ	Ø15 (M 8 X 15)

NGA-2624 (Series)

Polymer Sprocket Tapered Sleeve Roller

Product Features

1. Based on the NGA- 2224 series, covered with polypropylene (PP) tapered sleeve; abrasion resistance, low noise, shockproof, not influenced by change of temperature and climate.
2. Light weight, easy start-up.
3. Adopt sprocket made of MS (MS Sprocket) as the driving element, the running noise is greatly lowered down compared with steel sprocket.
4. Precision ball bearing polymer bearing housing, end cap forms the bearing unit which is very important. It is not only for good looking but also further more for the smooth and quiet running.
5. The end cap of roller resists dust and water splash well in operation environment.
6. Temperature range: 0 to +40°C

Parameters

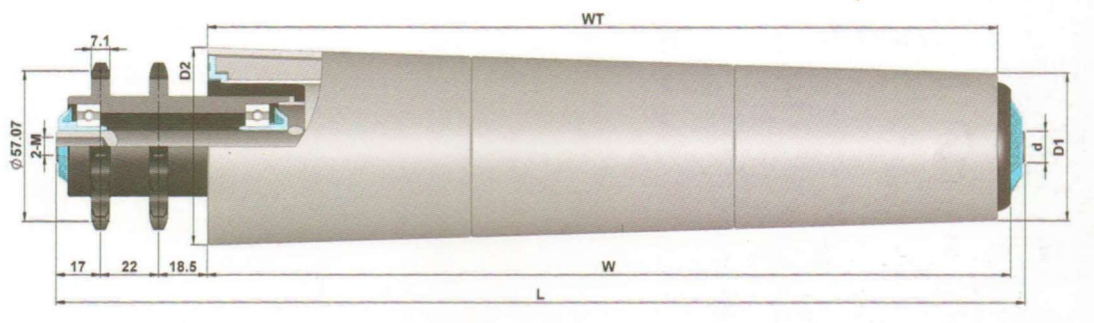


Bearing Unit	
Bearing Housing	MS Housing
End cap	Polypropylene
Precision Ball Bearing	ZZ

Driving Element	
Sprocket	MS

NGA-2624 Series

(Female Thread)



Tube Dia. (D)	Shaft Dia. (d)		Sprocket type	Material
Ø50	Ø12 /15	L=W+63	08B14T	PA66

Tube	W	Bearing	Shaft Dia (d) Ø
MS, Zinc plated, Tapered sleeve	230-305	ZZ	Ø12 (M 8 X 15)
	330-405	ZZ	Ø12 (M 8 X 15)
	430-505	ZZ	Ø12 (M 8 X 15)
	530-605	ZZ	Ø15 (M 8 X 15)
	630-705	ZZ	Ø15 (M 8 X 15)

	730-805	ZZ	Ø15 (M 8 X 15)
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NGA-1500 Series

Gravity Tapered Roller

Product features

1. The tapered tube made from 2mm steel plate, steel bearing housing of both sides welded with the tube, tight and durable.
2. The end cap of roller resists dust and water splash well in operation environment.
3. Standard conical degree is 3.6°, other degrees could be customized.

Parameters

Bearing Unit	
Bearing Housing	MS, zinc plated
End cap	Polypropylene
Precision Ball Bearing	ZZ
Driving Element	
Sprocket	MS

NGA-1500 Series

(Female Thread)



Tube Dia. (D)	Shaft Dia. (d)		
Ø50	Ø12 /15	E=W+9	L=W+11

Tube	Bearing	Shaft Dia (d) Ø12 (M 8 X 15)	Ø15 (M 10 X 20)
MS, Zinc-plated, Tapered sleeve	ZZ		

NGA-2521 (Series)



Steel Sprocket Tapered Roller

Product Features

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 tapered tube made from 2mm steel plate, steel bearing housing of both sides welded with the tube, tight and durable.
3. The bearing in the end of the sprocket is dismountable, good for maintenance and replacement.
4. The covering of the end of roller, well dust proof and water splash proof in operation environment.
5. Standard conical degree is 3.6°, other degree could be customized.
6. For better function of curve running, its sprocket teeth thickness is smaller than standard data.

Parameters

Bearing Unit	
Bearing Housing	MS, zinc plated
End cap	Polypropylene
Precision Ball Bearing	ZZ
Driving Element	
Sprocket	MS, zinc plated

NGA-2521 Series

(Female Thread)



Tube Dia. (D)	Shaft Dia. (d)		Sprocket Type
Ø50	Ø12	$E=W+9$	08B14T

Tube	Bearing	Shaft Dia (d) Ø12 (M 8 X 15)	Ø15 (M 10 X 20)
MS, Zic-plated, Tapered sleeve	ZZ		