



NGA GROUP

The **backbone**
of nonstop
Production.



We Build
Conveyor Rollers
for Unstoppable **Production**

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About NGA Group

NGA Group is a leading manufacturer and supplier of conveyor rollers and material handling components, committed to delivering efficient, durable, and precision-engineered solutions for modern industries. With years of industry experience, we have built a strong reputation for quality, reliability, and customer-focused manufacturing.

We specialize in producing a wide range of conveyor rollers including gravity rollers, powered rollers, heavy-duty rollers, impact rollers, and customized conveyor solutions designed to meet the specific demands of logistics, warehousing, mining, cement, FMCG, packaging, and manufacturing sectors.

At NGA Group, we combine advanced machinery, skilled workmanship, and strict quality control processes to ensure every product meets high performance and safety standards. Our manufacturing processes are optimized to deliver consistent output, dimensional accuracy, and long service life even in demanding operating conditions.

Our Strengths

Modern Manufacturing Infrastructure

Equipped with advanced production tools and testing facilities to ensure precision and scalability.

Customization Expertise

We design and manufacture conveyor rollers tailored to customer specifications such as load capacity, diameter, length, coating, and application environment.

Quality Assurance

Every product undergoes rigorous inspection and testing to ensure durability, smooth operation, and reliability.

Skilled Team

Our experienced engineers and technicians bring deep industry knowledge and a problem-solving mindset to every project.

Our Mission

To deliver high-quality, innovative, and cost-effective conveyor roller solutions that enhance operational efficiency and create long-term value for our customers.

Our Vision

To become a globally recognized brand in material handling solutions by continuously improving our technology, expanding our capabilities, and maintaining uncompromising standards of quality and service.

Why Choose NGA Group?

- ✓ Consistent product quality
- ✓ Competitive pricing
- ✓ Timely delivery
- ✓ Customer-centric approach
- ✓ Proven performance across industries
- ✓ At NGA Group, we don't just manufacture conveyor rollers — we create solutions that keep industries moving, growing, and succeeding.
- ✓ NGA Group – Built to Move. Engineered to Last.

NGA – Conveyor Roller

Gravity Convey Solution	
NGA –1100 Gravity	Spring Loaded – Female Thread – Flat Milling
NGA –1200 Roller for Bulk Handling	Spring Loaded – Female Thread – Flat Milling
NGA – Single & Double Groove Driven Rollers with and without Tithe	Hex & Round Saft – Spring Loaded – Female Thread
NGA – O – Belt wheel Roller with and without Tithe	Hex & Round Saft – Spring Loaded – Female Thread
NGA – MS –Vee Roller with and without Tithe	Hex & Round Saft – Spring Loaded – Female Thread
NGA – MS Thick Sprocket Roller	Hex & Round Saft – Spring Loaded – Female Thread
NGA – Gravity Tapered Sleeve Roller	Hex & Round Saft – Spring Loaded – Female Thread
NGA – O–Belt tapered Sleeve Roller	Hex & Round Saft – Spring Loaded – Female Thread
NGA – MS Sprocket Tapered Sleeve Roller	Hex & Round Saft – Spring Loaded – Female Thread
NGA – Female Thread	Hex & Round Saft – Spring Loaded – Female Thread
NGA – MS – Vee Tapered Roller	Hex & Round Saft – Spring Loaded – Female Thread
NGA – Gravity Tapered Roller with and without Tithe	Hex & Round Saft – Spring Loaded – Female Thread

Gravity Convey Solution

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

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

Moved by human force, suitable for convey of light weight, short distance and not so frequent work.

NGA–1100 (Series)

Universal conveyor roller

Product Features:

- ✓ 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 centre.
- ✓ Precision ball bearing MS bearing housing, HD 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.
- ✓ The HD end cap of roller resists dust splash well in operation environment.
- ✓ The design of MS bearing housing makes it able to operate in some special environment.
- ✓ The lubricating method of bearing could be oil lubricating or grease lubricating as requirement.
- ✓ Suitable for the high-speed conveying. Speed could vary according to diameter and length of roller, Max.
- ✓ Speed up to 120m/min.
- ✓ Semi-precision bearing for option, smooth running, be used for gravity roller conveyor in low speed (<30m/min)
- ✓ Temperature range: 0 to +40°C



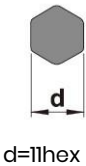
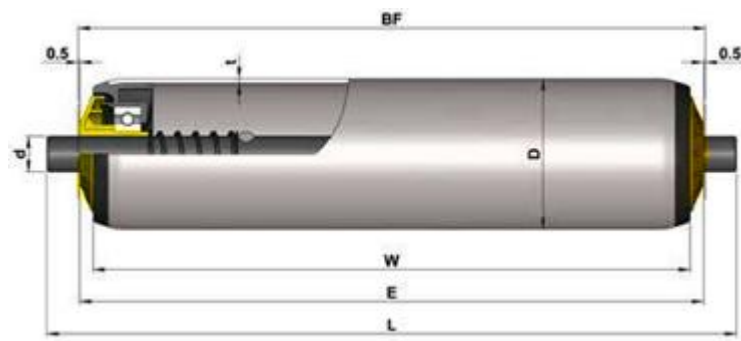
You could find the products in the catalogue according to their different features:

Product Features	Series	Diameter
Most popular in carton convey, nice and low noise	NGA -1100	Ø 25/37/38/40/50/60/80
Labyrinth seal structure, suitable for severe environment	NGA -1200	Ø 60/76 / 89/ 108/ 133/ 159

Parameters:

Bearing	Unit
Bearing Housing	MS Housing Zinc – plated
End Cap	HD, Polypropylene
Precision Ball Bearing	Every Bearing are ZZ

NGA-1200 Series (Spring Loaded-Series)

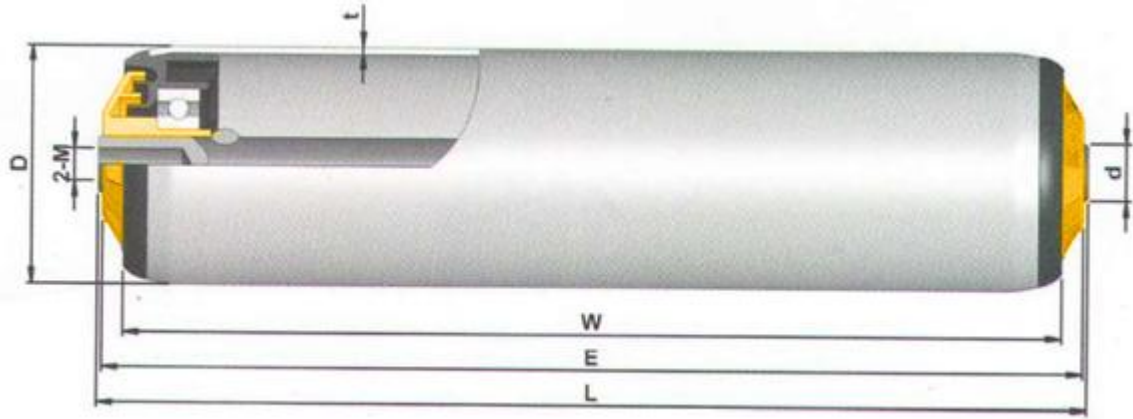


Tube Dia. (D)	Shaft Dia. (d)		
Ø37	Ø10/8hex	E=W+9	L=W+31
Ø38	Ø12/11hex	E=W+9	L=W+31
Ø40	Ø12/11hex	E=W+9	L=W+31
Ø50	Ø12/11hex	E=W+9	L=W+31
Ø60	Ø17/17hex	E=W+9	L=W+31
Ø80	Ø20/17hex	E=W+11	L=W+41

Tube	D X t	Bearing	Shaft Dia (d) Ø10	11hex
MS, Zinc - plated	Ø25x1.2 /1.6 /2mm	ZZ	10	8
	Ø37x1.2 /1.6 /2mm	ZZ	12/15	11
	Ø38x1.2 /1.6 /2mm	ZZ	12/15	11
	Ø40x1.2 /1.6 /2mm	ZZ	12/15	11
	Ø 50x1.6/ 2 /4mm	ZZ	12/15	11
	Ø60 x1.6/ 2/ 3/4 /5mm	ZZ	17	17
	Ø80 x 3/ 4/ 5mm	ZZ	20	20
Stainless Steel	Ø 38 X 1.2 /1.5	ZZ	12/15	11
	Ø 50.6 X 1.5	ZZ	12/15	11
	Ø 60 X 2	ZZ	17	17
Aluminium oxidation	Ø 50.6 X 1.5	ZZ	12/15	11
	Ø 60 X 2	ZZ	17	17

*Ø50 mm roller can be assembled with Ø10 shaft

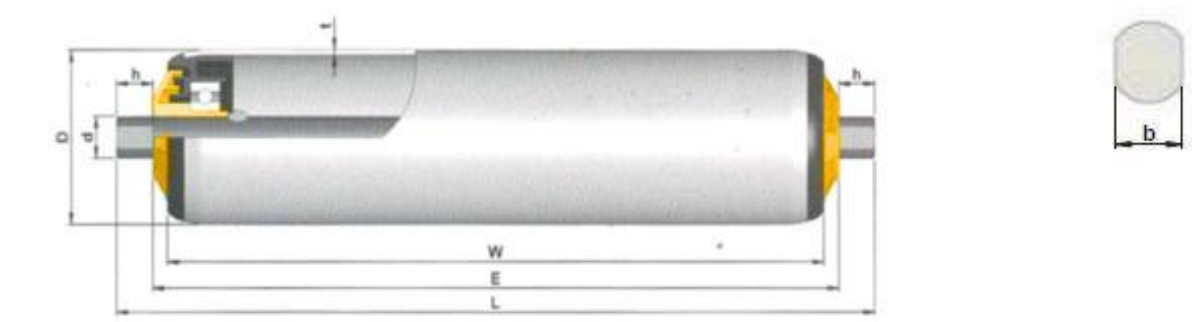
NGA -1300 Series (Female Thread)



Tube Dia. (D)	Shaft Dia. (d)		
Ø37	Ø10	$E=W+9$	$L=W+11$
Ø38	Ø12	$E=W+9$	$L=W+11$
Ø40	Ø12	$E=W+9$	$L=W+11$
Ø50	Ø12/15	$E=W+9$	$L=W+11$
Ø60	Ø12/15 /17	$E=W+9$	$L=W+11$
Ø80	Ø17/ 20	$E=W+11$	$L=W+13$

Tube	D X t	Bearing	Shaft Dia
MS, Zinc - plated	Ø25x1.2/ 1.6/ 2mm	ZZ	Ø10 (M8 X15)
	Ø37x1.2/ 1.6/ 2mm	ZZ	Ø12/15 (M10 X20)
	Ø38x1.2/ 1.6/ 2mm	ZZ	Ø12/15 (M10 X20)
	Ø40x1.2/ 1.6/ 2mm	ZZ	Ø12/15 (M10 X20)
	Ø50x1.2/ 1.6/ 2mm	ZZ	Ø12/15 (M10X20)
	Ø60x2/ 3/ 4/ 5mm	ZZ	Ø17 (M12X20)
	Ø80x3/ 4/ 5mm	ZZ	Ø20 (M12X25)
PVC (2 mm) MS, Zinc plated, With PVC Sleeve (2mm)	Ø 50.6 X 1.5/2	ZZ	Ø12/15 (M10X20)
Stainless Steel	Ø 38 X 1.2	ZZ	Ø10 (M8 X15)
	Ø 50.6 X 1.5	ZZ	Ø12/15 (M10 X20)
	Ø 60 X 2	ZZ	Ø17 (M12 X20)
Aluminium oxidation	Ø 38 X 1.5	ZZ	Ø10 (M10 X20)
	Ø 50.6 X 1.5	ZZ	Ø12/15 (M10X20)
	Ø 60 X 2	ZZ	Ø17 (M12X20)

NGA -1400 Series (Flat Milling)



Tube	D X t	Bearing	Shaft Dia (d) (Round)	Shaft Dia (hex)
MS, Zinc - plated	Ø25x1.2/ 1.6/ 2mm	ZZ	Ø10 (b/h=8/10)	8mm
	Ø37x1.2/ 1.6/ 2mm	ZZ	Ø12/15 (b/h=10/15)	10/11 mm
	Ø38x1.2/ 1.6/ 2mm	ZZ	Ø12/15 (b/h=10/15)	10/11mm
	Ø40x1.2/ 1.6/ 2mm	ZZ	Ø12/15 (b/h=10/15)	11mm
	Ø50x1.2/ 1.6/ 2mm	ZZ	Ø12/15 (b/h=10/15)	11 mm
	Ø60x2/ 3/ 4/ 5mm	ZZ	Ø17 (b/h=15/40)	17mm
Stainless Steel	Ø 38 X 1.2	zz	Ø12/15 (b/h=10/15)	10/11mm
	Ø 50.6 X 1.5	zz	Ø12/15 (b/h=10/15)	11 mm
	Ø 60 X 2	zz	Ø17 (b/h=15/40)	17mm
Aluminium oxidation	Ø 38 X 1.5	zz	Ø12/15 (b/h=10/15)	10/11 mm
	Ø 50.6 X 1.5	zz	Ø12/15 (b/h=10/15)	11mm
	Ø 60 X 2	zz	Ø17 (b/h=15/40)	17mm

NGA-1500 (Series)

Roller for Bulk Handling Product

Features:

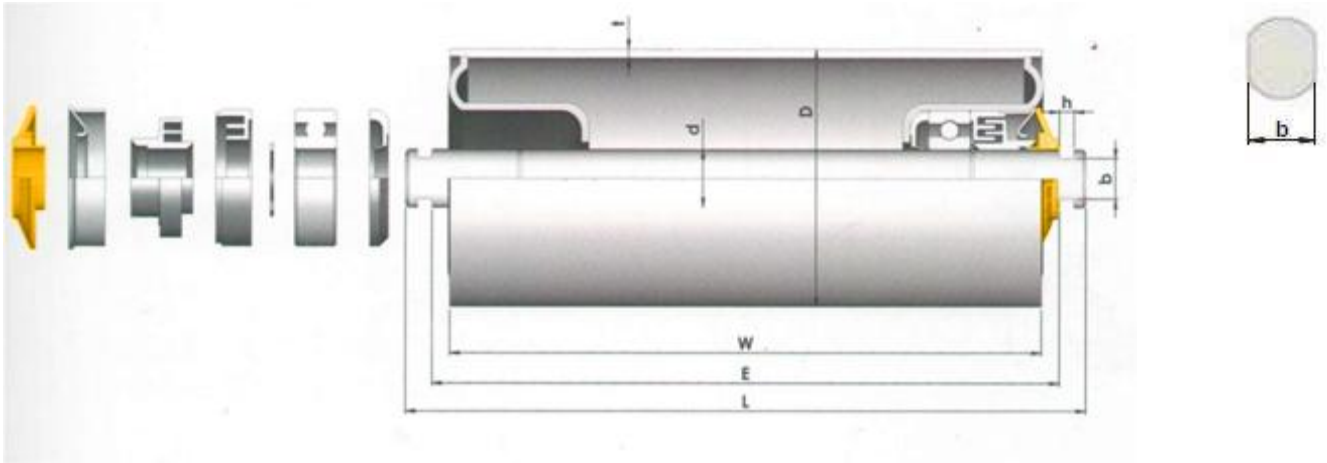
- ✓ Mainly applied as belt supporting roller of bulk in mining or dock, also could be applied in hard environment of timber processing or outdoor and rainy condition.
- ✓ Adopt labyrinth sealed structure, form a complex, curving and match able labyrinth channel between inside and outside sealing parts, well water proof and dust proof.
- ✓ Meet the requirement supporting roller.



Parameters:

Bearing	Unit
Bearing Housing	MS Housing
Precision Ball Bearing	ZZ
Labyrinth sealing unit	POM

NGA -1600 Series (Flat Milling)



Tube	D X t	Bearing	Shaft Dia (d) Ø (Round)
MS, paint or Black Japan	Ø25x1.2/ 1.6/ 2mm	ZZ	Ø10/ 8 hex (b/h=9/8)
	Ø37x1.2/ 1.6/ 2mm	ZZ	Ø12/15 (b/h=11/10)
	Ø38x1.2/ 1.6/ 2mm	ZZ	Ø12/15 (b/h=12/10)
	Ø40x1.2/ 1.6/ 2mm	ZZ	Ø12/15 (b/h=12/10)
	Ø50x1.2/ 1.6/ 2mm	ZZ	Ø12/15 (b/h=12/10)
	Ø60x2/ 3/ 4/ 5mm	ZZ	Ø17/20 (b/h=14/6)
	Ø 76 X 3	ZZ	Ø20 (b/h=14/6)
	Ø 89 X 3	ZZ	Ø20/25 (b/h=18/8)
	Ø 89 X 4	ZZ	Ø20/25(b/h=18/8)
	Ø 108 X 3.5	ZZ	Ø25/30(b/h=22/8)
	Ø 133 X 3.5	ZZ	Ø25/30(b/h=22/8)
	Ø 159 X 4	ZZ	Ø25/30(b/h=22/8)

DRIVEN CONVEY SOLUTION:

Drive convey could make the goods conveyed in accurate speed, steadily and reliably. According to the driving method, it could be 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.

O-belt drive – most traditional and popular in belt convey, widely applied in carton convey, with the features of high speed and low noise. According to different driving structure, it is classified as single groove and double grooves (multiple grooves designed on the base of double grooves) Disadvantage is load capacity is lower and lifetime is shorter than chain convey.

Double Groove Drive:

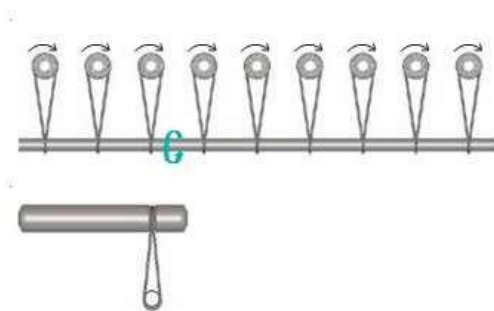
O-belt driven, one roller pulling another roller to convey.

- ✓ Easy arrangement, simple installation and maintenance.
- ✓ The torque decay more quickly, normal single roller could pull 7-8 passive rollers. The weight of conveyed unit should not exceed 30 kg.
- ✓ The length of O-belt could be decided as requirement no much requirement for the roller centre distance.
- ✓ Preloading value is needed for the length of O-belt loop, it could be different according to the different O-belt manufacturer. Normally make preloading value of 6 % - 8 %, that is reduced by 6 % - 8 % from the theoretical length of loop.

Single Groove Drive:

Conveyor driven by the drive shaft (popularly named line shaft) under the rollers, line shaft installed with driving wheels. O-belt turn around 90 degree and fixed in roller groove and driving wheel. Roller driven by the running of line shaft.

- ✓ Every roller's driving force is transmitted by the line shaft separately, compared with double grooves drive, it has more load capacity, mainly applied in the long distance convey. The max. convey distance could reach more than 10 meters.
- ✓ Line shaft could be connected by universal joint coupling.
- ✓ The maintenance is relatively difficult. Need to disassemble the whole line shaft.



Single Groove Drive



Double Groove Drive

MS - VEE Drive:

Applied in more and more roller conveyor line, it has high load capacity, more than 3 times of traditional O-Belt convey. The pitch is 2.34 mm.

- ✓ Only the poly-VEE belt of elastic fibre core could be applied in rollers because fibre core could cover the tapping tolerance of frame, and could also apply in the curve convey.
- ✓ You could choose poly-vee belt of 2 grooves or 03 grooves according to the weight of conveying load.
- ✓ Roller centre distance is strictly limited, the recommended poly-vee belt type for different centre distance is referred chart below:

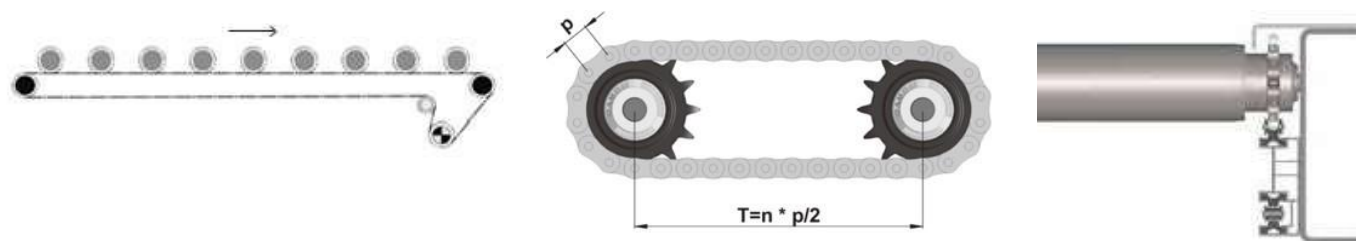
Roller Pitch		
(mm)	(inch)	
50mm	2.36"	
60mm	2.36"	
73mm	2.87"	
75mm	3.00"	
94mm	3.70"	
100 mm	4.00"	
105 mm	4.13"	
120 mm	4.72 "	
133 mm	5.23"	
160 mm	6.30"	

Chain Drive:

Large load capacity, easy arrangement, strong environmental adaption, could work in the place with oil and water frequently touching, and with high temperature, but the chain is easy to be a braised in the dusty environment, loud noise in high speed.

Single chain sprocket drive:

Compact structure, suitable for the condition of middle and light load, low speed, continuing operation. A chain drives all the single sprocket rollers on the conveyor. By the guide bars (popularly named chain support), the chain is fixed between the sprocket and chain support.



Double chain Sprocket drive:

Suitable for condition of heavy-duty load, high speed, frequently on – off. Chain meshes on the sprocket of roller by the hook-up's method. The convey is realized by one roller pulling another roller.



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

Product features	Diameter
O-belt drive, light duty conveys, groove position customized	Ø50 / 60
O-belt wheel, light duty conveys	Ø50
MS & SS – VEE Wheel, middle duty conveys, high speed, low noise	Ø50
MS & SS, middle duty conveys, nice, low noise	Ø50 / 60
MS & SS sprocket and bearing housing, heavy duty conveys, strong, durable	Ø50 / 60 / 76 / 80 / 89
MS & SS sprocket bearing housing, nice, low noise	Ø50 / 60 / 80
MS & SS, light duty conveys, exclusive use for aluminium alloy tube	Ø50 / 60

NGA -1800 (Series)

O-Belt conveyor roller

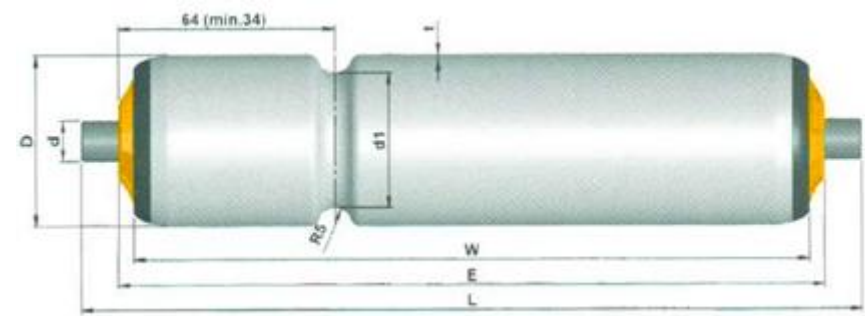
Product features

- ✓ Compared with chain drive, belt drive has the advantage of high speed and low noise, "O-belt" is the most popular way of belt drive
- ✓ Roller is driven by the friction of the "O-belt" in the groove of roller. To avoid the damage of the static to the goods (e.g., CMOS chip in electronic industry), anti-static design has already been the standard configuration of this product.
- ✓ Except standard type, the position and number of grooves could be customized (4 or more grooves on one roller is not recommended)
- ✓ 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 less than 300N.
- ✓ 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.
- ✓ Suitable in high-speed application. Speed could vary according to diameter and length of roller, Max. speed up to 120m/min.
- ✓ Temperature range: 0 to +40°C.

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



NGA -1900 Series (Spring Loaded)

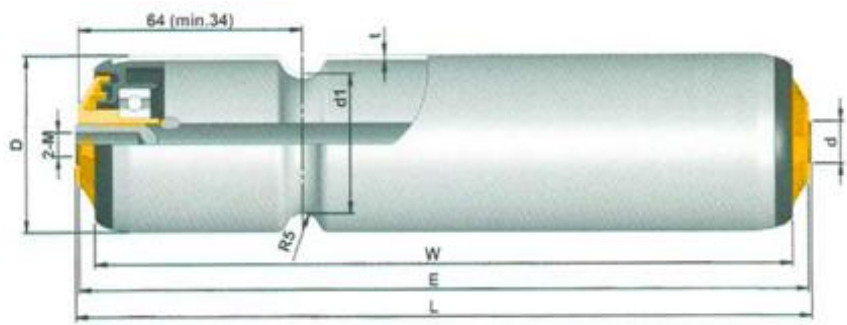


d=11 hex

Tube Dia. (D)	Shaft Dia. (d)	d1		
Ø25	Ø10			
Ø37	Ø10	E=W+9	L=W+31	
Ø38	Ø12	E=W+9	L=W+31	
Ø40	Ø12	E=W+9	L=W+31	
Ø50	Ø12/11hex	E=W+9	L=W+31	Ø38.5
Ø60	Ø12/11hex	E=W+9	L=W+31	Ø48

Tube	D X t	Bearing	Shaft Dia (Round)	Shaft Dia (hex)
MS, Zinc-plated	Ø 50 x 1.6	ZZ	Ø15	11hex
	Ø 60 x 1.6	ZZ	Ø17	17 hex
Stainless Steel	Ø 50 x 1.5	ZZ	Ø15	11 hex
	Ø 60 x 1.5	ZZ	Ø17	17 hex

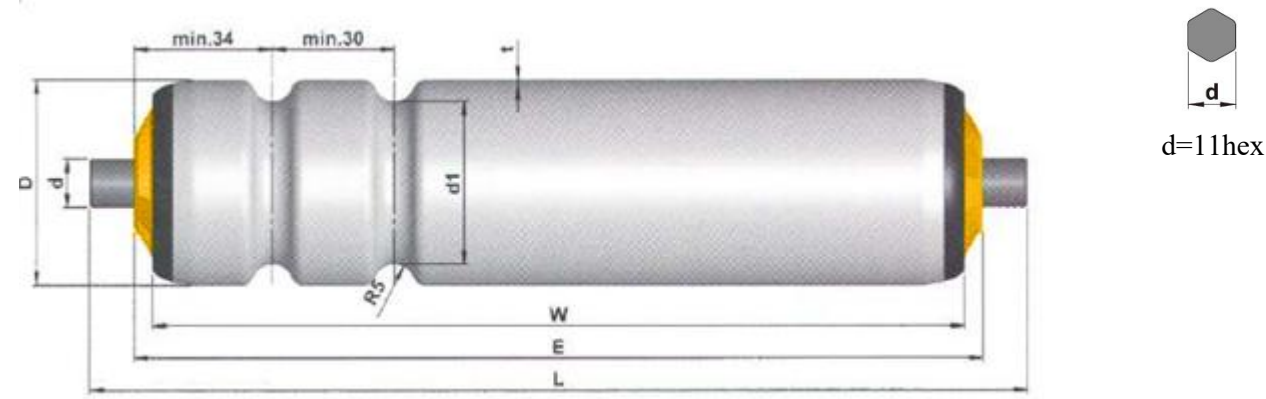
NGA –2000 Series (Female Thread)



Tube Dia. (D)	Shaft Dia. (d)	Shaft Dia Hex			d1
Ø50	Ø12/15	11	E=W+9	L=W+11	Ø38.5
Ø60	Ø12/15/17	17	E=W+9	L=W+11	Ø48

Tube	D X t	Bearing	Shaft Dia (d) (Round)
MS, Zinc-plated	Ø 50 X 1.5 /1.6	ZZ	Ø12/15 (M 8X 15)
	Ø 60 X 1.5/1.6	ZZ	Ø15/17 (M 10X 20)
Stainless Steel	Ø 50 X 1.5	ZZ	Ø12/15 (M 8X 15)
	Ø 60 X 2	ZZ	Ø15/17 (M 10X 20)

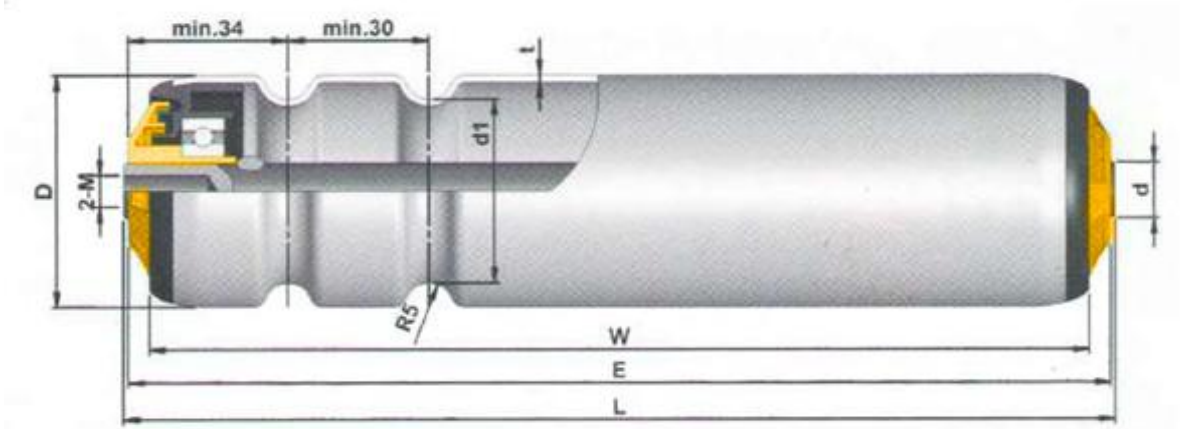
NGA-2100 Series (Spring Loaded)



Tube Dia. (D)		Shaft Dia. (d)		d1	
Ø50		Ø12/15/11hex	E=W+9	L=W+31	Ø38.5
Ø60		Ø12/15/11hex	E=W+9	L=W+31	Ø48

Tube	D X t	Bearing	Shaft Dia (d) Ø12	11hex
MS, Zinc-plated	Ø 50 X 1.5 /1.6	ZZ	12/15	11
	Ø 60 X 1.5/1.6	ZZ	17	17
Stainless Steel	Ø 50 X 1.5	ZZ	12/15	11
	Ø 60 X 2	ZZ	17	17

NGA – 2200 Series (Female Thread)



Tube Dia. (D)	Shaft Dia. (d)	d 1		
Ø50	Ø12/15	E=W+9	L=W+11	Ø38.5
Ø60	Ø12/15	E=W+9	L=W+11	Ø48

Tube	D X t	Bearing	Shaft Dia (d) Ø12 (M 8X 15)
MS, Zinc-plated	Ø 50 X 1.5/1.6	ZZ	Ø12/15 (M 8X 15)
	Ø 60 X 1.6	ZZ	Ø15/17 (M 10X 20)
Stainless Steel	Ø 50 X 1.5	ZZ	Ø12/15(M 8X 15)
	Ø 60 X 2	ZZ	Ø15/17(M 10X 20)

NGA –2300 (Series)

MS O-Belt wheel roller

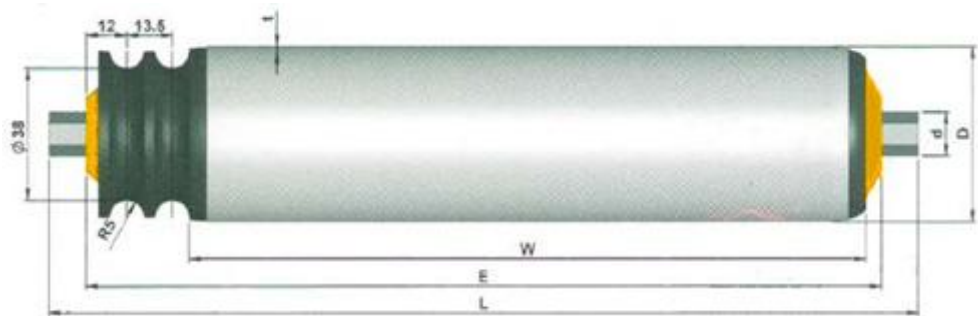
Product Features

- ✓ It does not make grooves on the tube, but moving the "O-belt" wheel to the end of the roller, make it separate between drive space and convey space, so as to avoid the interference between "O-belt" and conveying goods, also avoid the oil from the surface of goods polluting the "O-belt".
- ✓ Because it is not grooving on the tube, the tube will not have any distortion, and the roller will run more smoothly.
- ✓ The groove position is fixed.
- ✓ 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 less than 300N.
- ✓ 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.
- ✓ The end cap of roller resists dust and water splash well in operation environment.
- ✓ Suitable in high-speed application. Speed could vary according to diameter and length of roller, Max. Speed up to 120m/min.
- ✓ Temperature range: 0 to +40°C

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

Driving Element	
O-Belt wheel	MS

NGA – 2400 Series (Spring Loaded)

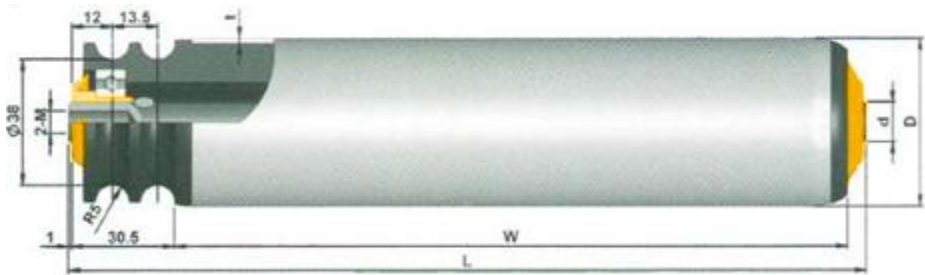


d=11hex



Tube	D X t	Bearing	Shaft Dia (d) (Round)	hex
MS, Zinc-plated	Ø 50 X 1.5	ZZ	Ø12/15	11
Stainless Steel	Ø 50 X 1.5	ZZ	Ø12/15	11
Aluminium, oxidation	Ø 50 X 1.5	ZZ	Ø12/15	11

NGA – 2500 Series
 (Female Thread)



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

Tube	D X t	Bearing	Shaft Dia (d) (Round)
MS, Zinc-plated	Ø 50 X 1.6	ZZ	Ø12/15 (M 10 X 20)
Stainless Steel	Ø 50 X 1.5	ZZ	Ø12/15 (M 10 X 20)
Aluminium, oxidation	Ø 50 X 1.5	ZZ	Ø12/15 (M 10 X 20)

NGA –2600 (Series)

MS-vee Roller

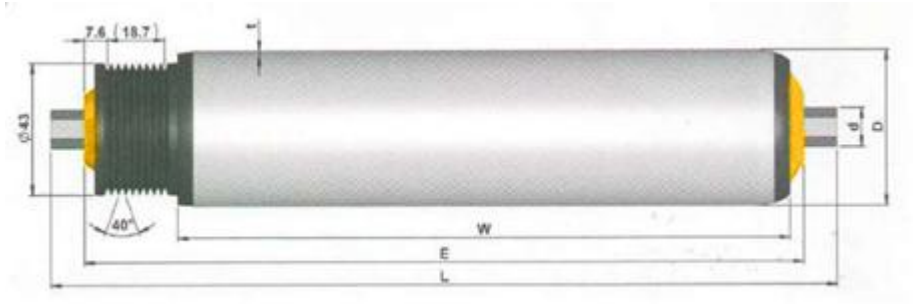
Product Features

- ✓ 1."O-belt" roller could not solve the problem of weak loading capacity, but this problem could be well solved by MS-vee roller, and this type of roller has also the features of "O-belt" roller like high speed and low noise.
- ✓ 2. Poly-vee belt, pitch 2.34mm.
- ✓ According to the load to convey, you could choose the Poly- vee belt of 2 grooves or 3 grooves. Even for the Poly-vee belt of 2 grooves, the unit convey capacity could reach 50kg.
- ✓ 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 Poly-vee belt.
- ✓ The different roller pitch (centre distance between rollers) requires different type of poly-vee belt.
- ✓ 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.
- ✓ The end cap of roller resists dust and water splash well in operation environment.
- ✓ Suitable in high-speed application. Speed could vary according to diameter and length of roller, Max. speed up to 120m/min.
- ✓ Temperature range: 0 to +40°C

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

Driving Element	
Poly-vee Belt	Polyamide , Black
• Poly Vee belt also available	

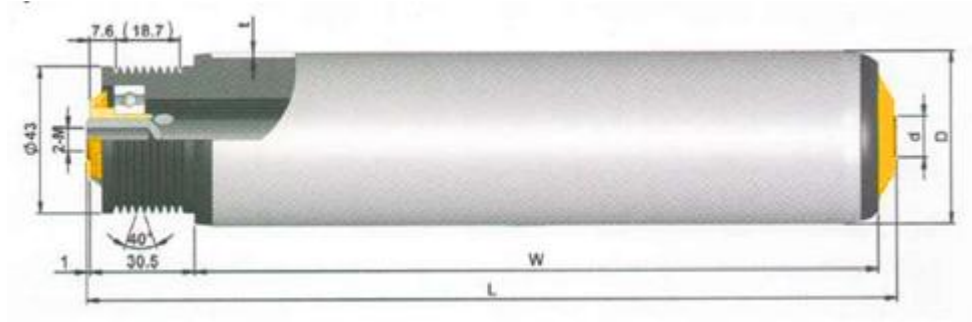
NGA – 2700 Series (Spring Loaded)



d=11hex

Tube	D X t	Bearing	Shaft Dia (d) (Round)	11hex
MS, Zinc-plated	Ø 50 X 1.6	ZZ	Ø12/15	11
Stainless Steel	Ø 50 X 1.5	ZZ	Ø12/15	11
Aluminium, oxidation	Ø 50 X 1.5	ZZ	Ø12/15	11

NGA -2800 Series (Female Thread)



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

Tube	D X t	Bearing	Shaft Dia (d) (Round)
MS, Zinc-plated	Ø 50.6 X 1.5	ZZ	Ø12/15 (M 10 X 20)
Stainless Steel	Ø 50.6 X 1.5	ZZ	Ø12/15 (M 10 X 20)
Aluminium, oxidation	Ø 50.6 X 1.5	ZZ	Ø12/15 (M 10 X 20)

NGA –2900 Series

MS Sprocket Roller

Product features

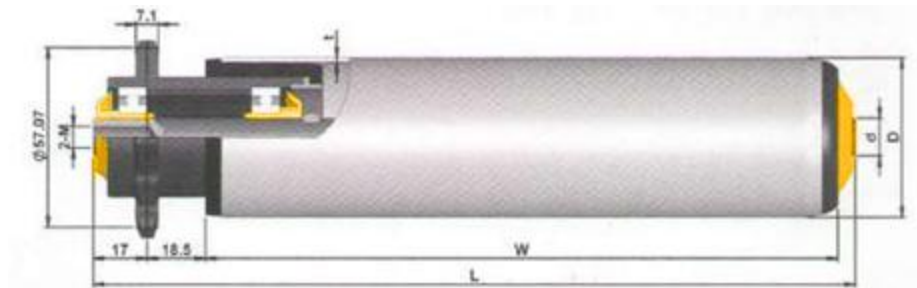
- ✓ The disadvantage of the MS sprocket drive is more noise. But sprocket made MS Sprocket as the driving element, the running noise has been greatly lowed down.
- ✓ Precision ball bearing MS bearing housing, end cap forms the bearing unit which is very important. It is not only for good looking but also further more for the smooth and quiet running.
- ✓ The end cap of roller resists dust and water splash well in operation environment.
- ✓ The design of bearing housing makes it is able to operate in some special environment.
- ✓ Temperature range: 0 to +40°C

Parameters

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

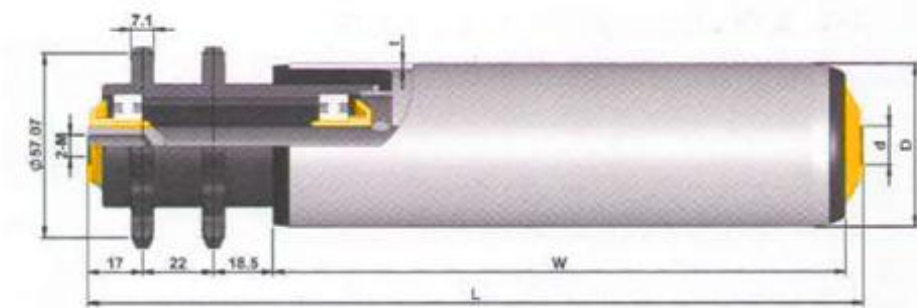
Driving Element	
Sprocket	MS Housing

NGA-3000 Series (Female Thread)



Tube Dia. (D)	Shaft Dia. (d)		Sprocket Type	Material
Ø50	Ø15	L=W+41	08B14T	MS
Ø60	Ø15/17	L=W+41	08B14T	MS

Tube	D X t	Bearing	Shaft Dia (d) Ø12 (M 8 X 15)
MS, Zinc-plated	Ø 40 X 1.5	ZZ	Ø15 (M 10 X 20)
	Ø 50 X 1.5	ZZ	Ø15 (M 10 X 20)
	Ø 60 X 2.0	ZZ	Ø17 (M 12 X 20)
Stainless Steel	Ø 50 X 1.5	ZZ	Ø15 (M 10 X 20)
	Ø 60 X 2.0	ZZ	Ø17 (M 12 X 20)
Aluminium, oxidation	Ø 50 X 1.5	ZZ	Ø15 (M 10 X 20)
	Ø 60 X 2.0	ZZ	Ø17 (M 12 X 20)



Tube Dia. (D)	Shaft Dia. (d)		Sprocket Type	Material
Ø50	Ø15	L=W+63	08BI4T	MS
Ø60	Ø15/17	L=W+63	08BI4T	MS

Tube	D X t	Bearing	Shaft Dia (d) Ø12 (M 8 X 15)
MS, Zinc-plated	Ø 40 X 1.5	ZZ	Ø15 (M 10 X 20)
	Ø 50 X 1.5	ZZ	Ø15 (M 10 X 20)
	Ø 60 X 2.0	ZZ	Ø17 (M 12 X 20)
Stainless Steel	Ø 50 X 1.5	ZZ	Ø15 (M 10 X 20)
	Ø 60 X 2.0	ZZ	Ø17 (M 12 X 20)
Aluminium, oxidation	Ø 50 X 1.5	ZZ	Ø15 (M 10 X 20)
	Ø 60 X 2.0	ZZ	Ø17 (M 12 X 20)

NGA –3100 (Series)

Steel Sprocket Roller

Product Features

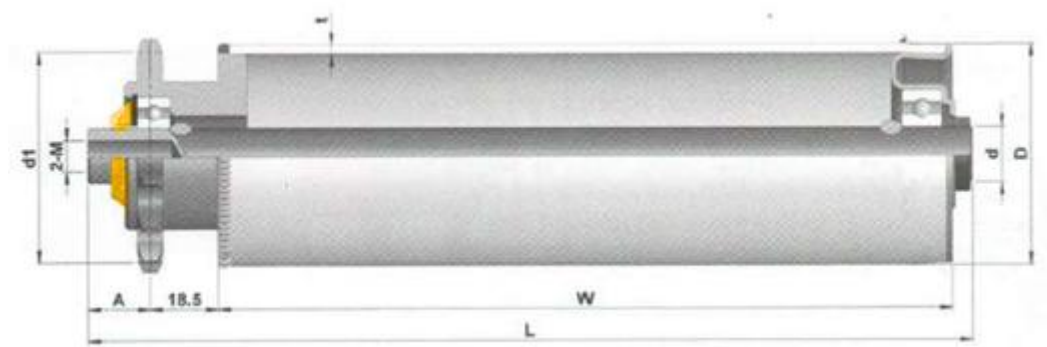
- ✓ MS sprocket welded with MS tube, make it capable to transmit higher torque, and meet with the request of transportation of heavy duty.
- ✓ The bearing in the end of the sprocket is dismountable, not only increase load capacity, but also helpful for maintenance and replacement.
- ✓ The covering on the outside of the sprocket, well dust proof in operation environment.
- ✓ The precision ball bearing is fixed by impact in the MS bearing housing, tight and durable.
- ✓ Tight MS bearing housing could bear more heavier duty bearing unit.
- ✓ Compared with roller bearing unit, its noise is a little bit louder.
- ✓ Temperature range: -10 to +80°C

Parameters

Bearing		Unit
Bearing Housing		MS Housing
Precision ball bearing		ZZ
Ground sleeve		Polyamide (partial configure)

Driving Element	
Sprocket	MS, zinc plated

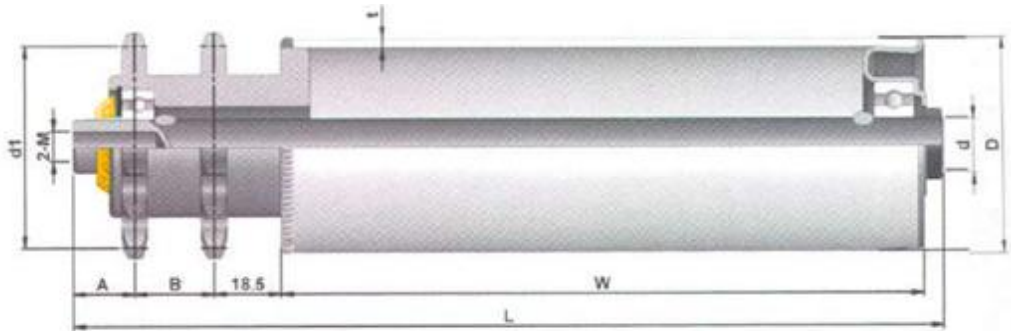
NGA – 3200 Series (Female Thread)



Tube Dia. (D)	Shaft Dia. (d)	A		Sprocket Type	d1
Ø40	Ø15	17	L=W+40	3.8B11T	Ø39.04
Ø50	Ø15	17	L=W+40	08B14T	Ø45.08
Ø60	Ø15/17	17	L=W+41	08B14T	Ø57.07
Ø76/ 80 / 89	Ø20	20	L=W+44	10A13T	Ø66.33

Tube	D X t	Bearing	Shaft Dia (d) Ø12 (M 8 X 15)
MS, Zinc plated	Ø 40 X 2/3	ZZ	Ø15 (M 10 X 20)
	Ø 50 X 2/3	ZZ	Ø15 (M 10 X 20)
	Ø 60 X 2/3/4	ZZ	Ø17 (M 12 X 20)
	Ø 76 X 3/4/5	ZZ	Ø20 (M 12 X 25)
	Ø 80 X 3/4/5	ZZ	Ø20 (M 12 X 25)
	Ø 89 X 3/4/5	ZZ	Ø20 (M 12 X 25)

NGA –3300 Series (Female Thread)



Tube Dia. (D)	Shaft Dia. (d)	Shaft Dia Hex	A		Sprocket Type	d1
Ø40	Ø15	11	17	L=W+62	3/8"BIT	Ø39.4
Ø50	Ø15	11	17	L=W+62	08BI4T	Ø45.08
Ø60	Ø17/20	17	17	L=W+63	08BI4T	Ø57.07
Ø76/ 80 / 89	Ø20	17	20	L=W+69	10AI3T	Ø66.33

Tube	D X t	Bearing	Shaft Dia (d) Ø12 (M 8 X 15)
MS, Zinc-plated	Ø 40 X 1.5/2/3	ZZ	Ø15 (M 10 X 20)
	Ø 50 X 1.5/2/3	ZZ	Ø15 (M 10 X 20)
	Ø 60 X 2/3/4	ZZ	Ø17 (M 12 X 20)
	Ø 76 X ¾	ZZ	Ø20 (M 12 X 25)
	Ø 80 X ¾	ZZ	Ø20 (M 12 X 25)
	Ø 89 X ¾	ZZ	Ø20 (M 12 X 25)

NGA – 3400 Series

Steel Sprocket Roller

Product Features

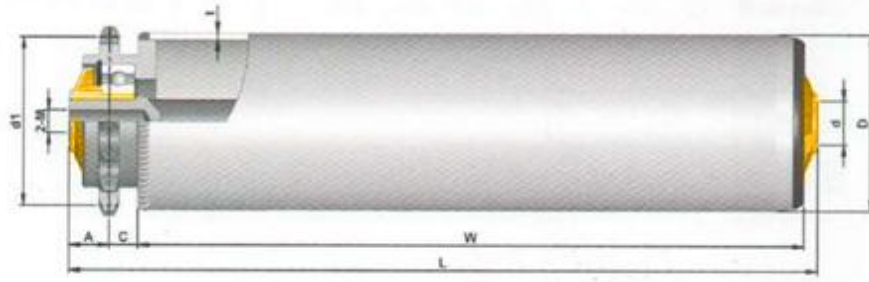
- ✓ Steel sprocket welded with tube, make it capable to transmit higher torque, and meet the request of transportation of heavy-duty load.
- ✓ The bearing in the end of the sprocket is dismountable, not only increase load capacity, but also helpful for maintenance and replacement.
- ✓ Precision ball bearing MS bearing 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.
- ✓ 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
End Cap	Polypropylene
Precision ball bearing	ZZ

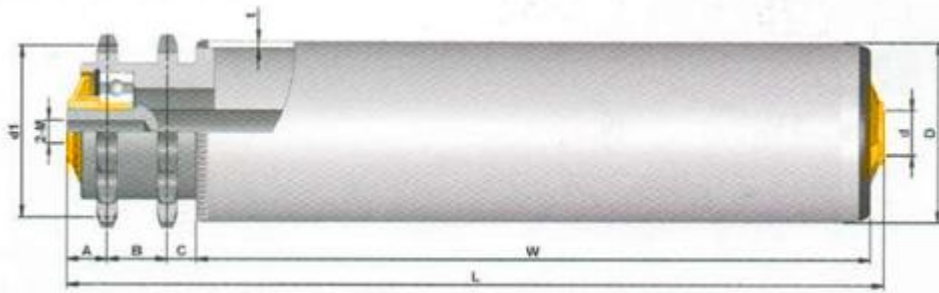
Driving Element	
Sprocket	MS, zinc plated

NGA -3500 Series (Female Thread)



Tube Dia. (D)	Shaft Dia. (d)	A	C		Sprocket Type	d1
Ø40	Ø12/15	17	18.5	$L=W+41$	3/8B11T	Ø39.4
Ø50	Ø12/15	17	18.5	$L=W+41$	08B14T	Ø57.07
Ø60	Ø15/17	17	18.5	$L=W+41$	08B14T	Ø57.07
Ø80	Ø20	18	13	$L=W+37$	10B15T	Ø76.35

Tube	D X t	Bearing	Shaft Dia (d)
MS, Zinc-plated	Ø 40 X 1.5/2/3	ZZ	Ø15 (M 10 X 20)
	Ø 50 X 1.5/2/3	ZZ	Ø15 (M 10 X 20)
	Ø 60 X 2/3/4	ZZ	Ø17 (M 12 X 25)
	Ø 80 X ¾	ZZ	Ø20 (M 12 X 25)



Tube Dia. (D)	Shaft Dia. (d)	A	B	C		Sprocket Type	d1
Ø40	Ø12/15	17	22	18.5	$L=W+63$	3/8'B11T	Ø39.4
Ø50	Ø12/15	17	22	18.5	$L=W+63$	08B14T	Ø57.07
Ø60	Ø15/17	17	22	18.5	$L=W+63$	08B14T	Ø57.07
Ø80	Ø20	18	26	13	$L=W+63$	10B15T	Ø76.35

Tube	D X t	Bearing	Shaft Dia (d) Ø12 (M 8 X 15)
MS, Zinc-plated	Ø 40X 1.5/2/3	ZZ	Ø15 (M 10 X 20)
	Ø 50 X 1.5/2/3	ZZ	Ø15 (M 10 X 20)
	Ø 60 X 2/3/4	ZZ	Ø17 (M 12 X 25)
	Ø 80 X 3/4	ZZ	Ø20 (M 12 X 25)

NGA – 3600 (Series) (Steel sprocket Roller)

Product Features

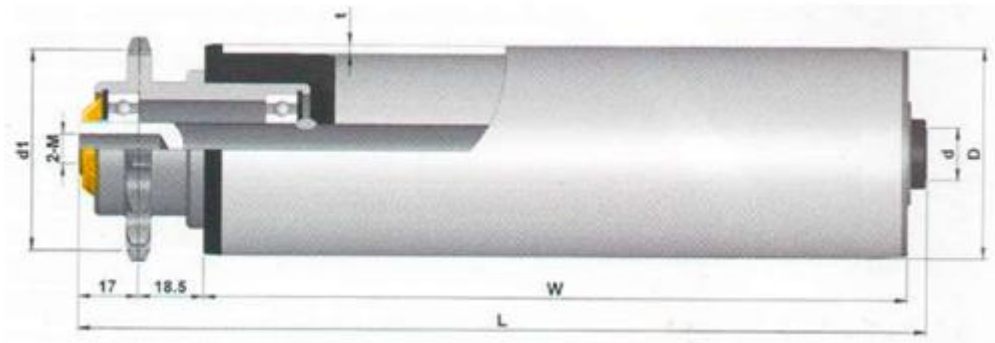
- ✓ Designed for the sprocket roller with tube of aluminium alloy, transmission set is adopted between MS sprocket and tube to realize driving.
- ✓ Aluminium alloy tube is light and easy to clean, widely applied in some special industries (e.g. rubber industry).
- ✓ The bearing in the end of the sprocket is dismountable, helpful for maintenance and replacement.
- ✓ The precision ball bearing is fixed by impact in the MS housing, tight and durable.
- ✓ Temperature range: 0 to +40°C

Parameters

Bearing Unit	
Bearing Housing	MS Housing, zinc – plated
Precision Ball Bearing	ZZ
Ground Sleeve	Polyamide (partial configure)

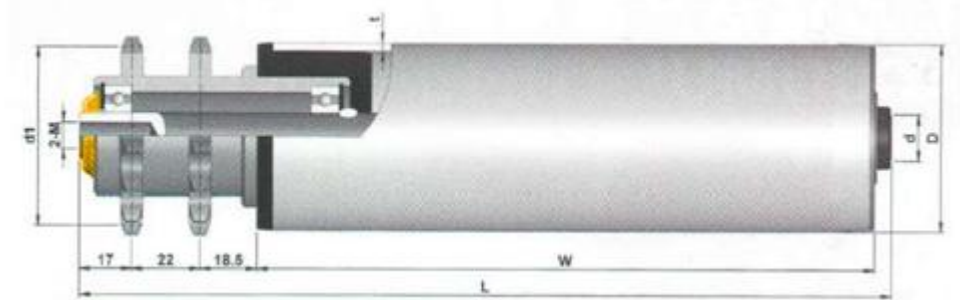
Driving Element	
Sprocket	MS Housing

NGA –3700 Series (Female Thread)



Tube Dia. (D)	Shaft Dia. (d)		Sprocket Type	d1
Ø40	Ø15	L=W+41	3/8"BIIT	Ø39.4
Ø50	Ø15	L=W+41	08B14T	Ø57.07
Ø60	Ø15/17	L=W+41	08B14T	Ø57.07
Ø76	Ø20	L=W+41	10B19T	Ø77.16
Ø80	Ø20	L=W+41	10B19T	Ø77.16

Tube	D X t	Bearing	Shaft Dia (d) Ø12 (M 8 X 15)
Aluminium, Oxidation	Ø 40 X 1.5/2/3	ZZ	Ø15 (M 10 X 20)
	Ø 50 X 1.5/2/3	ZZ	Ø15 (M 10 X 20)
	Ø 60 X 2/3/4	ZZ	Ø17 (M 12 X 25)
	Ø 76 X 3/4	ZZ	Ø20 (M 12 X 25)
	Ø 80 X 4	ZZ	Ø20 (M 12 X 25)



Tube Dia. (D)	Shaft Dia. (d)		Sprocket Type	d1
Ø40	Ø12	L=W+41	3/8"BIIT	Ø39.4
Ø50	Ø12	L=W+41	08B14T	Ø57.07
Ø60	Ø12/15	L=W+41	08B14T	Ø57.07
Ø76	Ø20	L=W+41	10B19T	Ø77.16
Ø80	Ø20	L=W+41	10B19T	Ø77.16

Tube	D X t	Bearing	Shaft Dia (d)
Aluminium, Oxidation	Ø 40 X 1.5/2/3	ZZ	Ø12 (M 8 X 15)
	Ø 50 X 1.5/2/3	ZZ	Ø12 (M 8 X 15)
	Ø 60 X 2	ZZ	Ø15 (M 10 X 20)
	Ø 76 X 3	ZZ	Ø20 (M 12 X 25)
	Ø 80 X 4	ZZ	Ø20 (M 12 X 25)
		ZZ	Ø20 (M 12 X 25)

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 the 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.

The accumulation force on the conveyor line will increase according to the length of goods piled up. If we adopt non-accumulation convey. It will happen very likely as below:

- ✓ Goods will push each other, goods will be damaged or squeezed out by the more and more accumulation force.
- ✓ Violent friction between roller and goods, bottom of the goods is damaged.
- ✓ Load of conveyor line is increased gradually, driving motor is overload.

Accumulation force is limited by many factors, and these factors has general influence on the roller's operation and lifetime.

- ✓ Goods weight
- ✓ The smooth of goods bottom.
- ✓ Temperature and moisture
- ✓ Accumulation time
- ✓ Load position

According to different structure, it is classified as telescope-feed accumulation and adjustable accumulation:

- ✓ Telescope-Feed accumulation: mainly for light duty carton convey (<35 kg/ carton). Its accumulation force is limited and not so stable in some case. It even need some driving rollers to cooperate for expected accumulation result.
- ✓ Adjustable accumulation: mainly for heavy duty pallet convey the accumulation force is adjustable. Suitable for different load convey.



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

Product Features	Diameter
MS sprocket, light duty accumulation, could switch to driving structure	Ø 50/ 60
MS sprocket, light duty accumulation, strong and durable	Ø 50/ 60
MS sprocket, heavy duty accumulation, accumulation force is adjustable	Ø 50/ 60/76/ 89

NGA –3800 (Series) (MS Sprocket Accumulating Roller)

Product Features

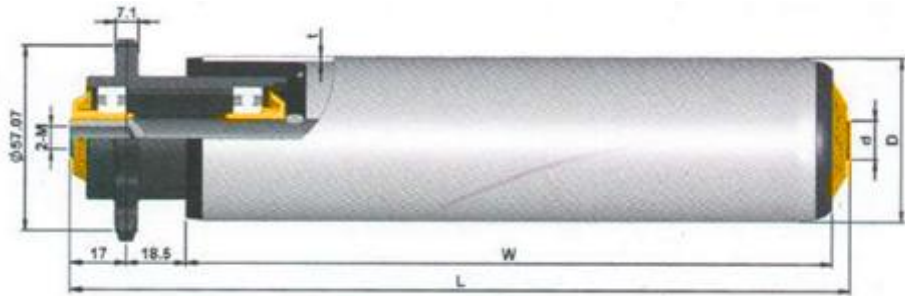
- ✓ Typical telescope-feed accumulation, the accumulation power is depend on by the load and automatically adjustable in some scale.
- ✓ Accumulation cover is made of MS, which is abrasion resisting.
- ✓ Adopting sprocket made of MS Sprocket as the driving element, the running noise is greatly lowed down compared with MS sprocket.
- ✓ The covering on the outside of the sprocket, well dust proof in operation environment.
- ✓ Precision ball bearing MS bearing 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.
- ✓ The end cap of roller resists dust and water splash well in operation environment.
- ✓ The design of bearing housing makes it is able to operate in some special environment.
- ✓ Temperature range: 0 to +40°C

Parameters

Bearing Unit	
Bearing Housing	MS Housing
End cap	Polypropylene
Precision ball bearing	ZZ

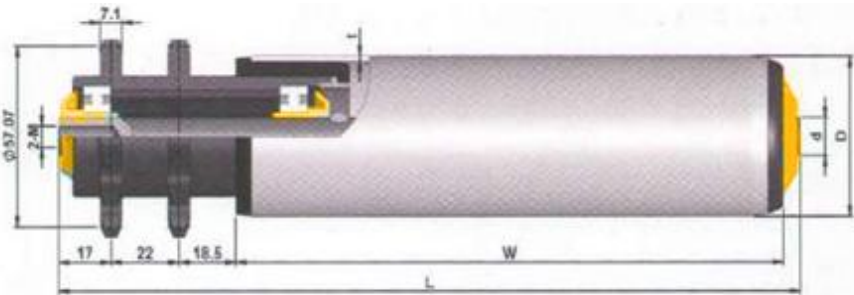
Driving Element	
Sprocket	MS

NGA – 3900 Series (Female Thread)



Tube Dia. (D)	Shaft Dia. (d)		Sprocket Type	Material
Ø50	Ø12/ 15	L=W+41	UBB14T	PA66
Ø60	Ø12/15	L=W+41	UBB14T	PA66

Tube	D X t	Bearing	Shaft Dia (d) Ø12 (M 8 X 15)	Ø15 (M 10 X 20)
MS, Zinc-plated	Ø 50 X 1.5	ZZ		
	Ø 60 X 2	ZZ		
Stainless steel	Ø 50 X 1.5	ZZ		
	Ø 60 X 2	ZZ		
Aluminium, oxidation	Ø 50 X 1.5	ZZ		
	Ø 60 X 2	ZZ		



Tube Dia. (D)	Shaft Dia. (d)		Sprocket Type	Material
Ø50	Ø12/ 15	L=W+63	08B14T	PA66
Ø60	Ø12/15	L=W+63	08B14T	PA66

Tube	D X t	Bearing	Shaft Dia (d) Ø12 (M 8 X 15)	Ø15 (M 10 X 20)
Steel, Zinc-plated	Ø 50.6 X 1.5	6002	3.224.JHA.ACC	3.224.JHA.ADC
	Ø 60 X 2	6002	3.224.JOA.ACC	3.224.JOA.ADC
Stainless steel	Ø 50.6 X 1.5	6002	3.224.NHC.BCC	3.224.NHC.BDC
	Ø 60 X 2	6002	3.224.NOC.BCC	3.224.NOC.BDC
Aluminium, oxidation	Ø 50.6 X 1.5	6002	3.224.AHC.ACC	3.224.AHC.ADC
	Ø 60 X 2	6002	3.224.AOC.ACC	3.224.AOC.ADC

NGA – 4000 (Series)

MS Sprocket Accumulating Roller

Product Features

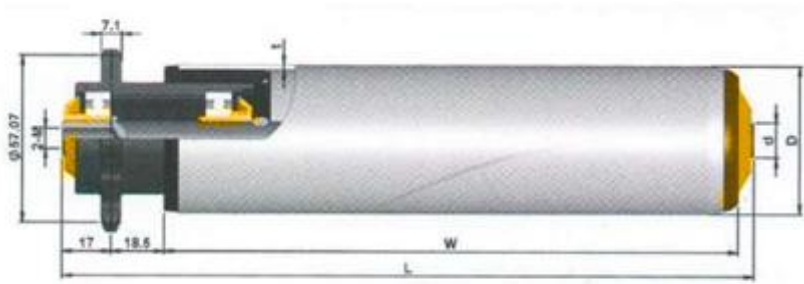
- ✓ Typical telescope-feed accumulation, the accumulation power is determined by the load and automatically adjustable in some scale.
- ✓ Accumulation cover is made of polyamide, which is self- lubricating and abrasion resisting.
- ✓ Precision ball bearing MS bearing housing, end cap forms the bearing unit which is very important. It is not only for good looking but also further more for the smooth and quiet running.
- ✓ 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, Aqua blue
Precision Ball Bearing	ZZ

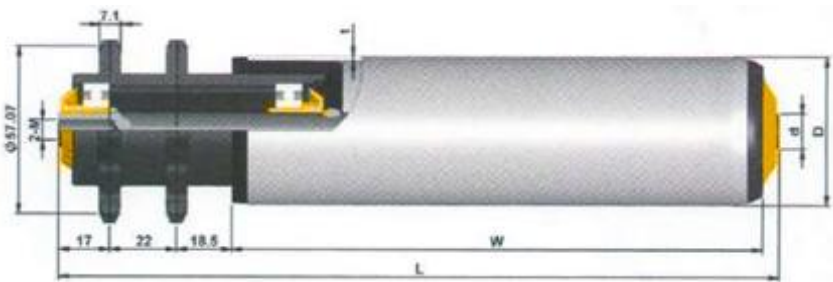
Driving Element	
Sprocket	MS

NGA – 4100 Series (Female Thread)



Tube Dia. (D)	Shaft Dia. (d)	Sprocket Type	
Ø50	Ø12/ 15	L=W+41	UBB14T
Ø60	Ø12/15	L=W+41	UBB14T

Tube	D X t	Bearing
MS, Zinc-plated	Ø 50 X 1.5	ZZ
	Ø 60 X 2	ZZ
Stainless steel	Ø 50 X 1.5	ZZ
	Ø 60 X 2	ZZ
Aluminium, oxidation	Ø 50 X 1.5	ZZ
	Ø 60 X 2	ZZ



Tube Dia. (D)	Shaft Dia. (d)	Sprocket Type	
Ø50	Ø12	L=W+63	08B14T
Ø60	Ø12	L=W+63	08B14T

Tube	D X t	Bearing
MS, Zinc-plated	Ø 50 X 1.5	ZZ
	Ø 60 X 2	ZZ
Stainless steel	Ø 50 X 1.5	ZZ
	Ø 60 X 2	ZZ
Aluminium, oxidation	Ø 50 X 1.5	ZZ
	Ø 60 X 2	ZZ

NGA – 4200 (Series)

Adjustable Accumulating Roller

Product features

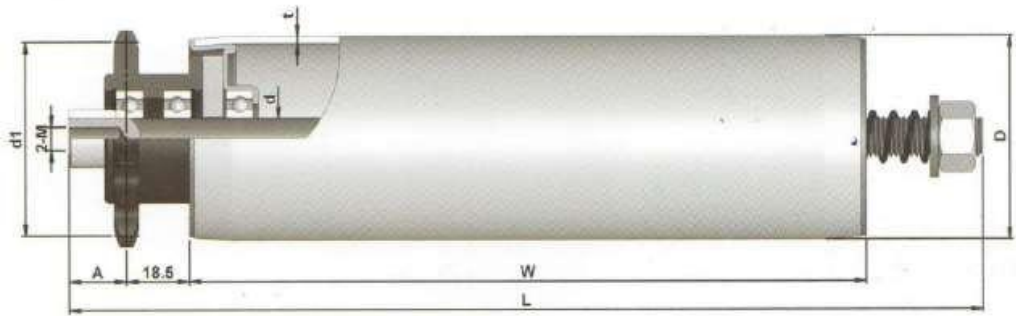
- ✓ The accumulation power of telescope-feed accumulation is limited, could not support heavy duty accumulation, but NGA-3816/3826 series could satisfy this requirement.
- ✓ Friction slice made of special material greatly improve its abrasion resistance, and its life time is greatly improved.
- ✓ The accumulation power is adjusted by the nut of the end, make the accumulation power accurate and steady.
- ✓ Using the self-locking nut of the end, make it not easy to lose or lower down the accumulation power.
- ✓ The precision ball bearing is fixed by impact in the MS bearing housing, tight and durable.
- ✓ Tight steel bearing unit could bear heavier duty than polymer bearing unit.
- ✓ Temperature range: -10 to +80°C

Parameters

Bearing Unit	
Bearing Housing	MS Housing, Zinc plated
Precision Ball Bearing	ZZ

Driving Element	
Sprocket	MS

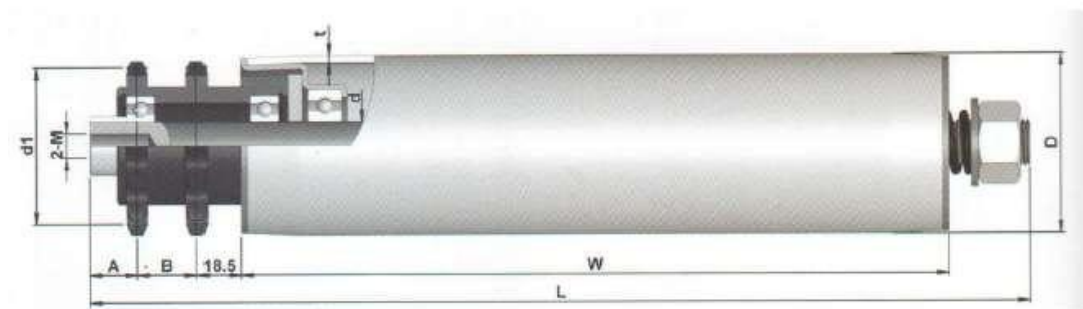
NGA-4300 Series (Female Thread)



Tube Dia. (D)	Shaft Dia. (d)	A		Sprocket Type	d1
Ø50	Ø12	17	L=W+70	08B11T	Ø45.08
Ø60	Ø12/15	17	L=W+70	08B14T	Ø57.07
Ø76 / 89	Ø20	20	L=W+78	10A13T	Ø66.33

Tube	D X t	Bearing
MS, Zinc-plated	Ø 50 X 1.5	ZZ
	Ø 60 X 2	ZZ
	Ø 76 X 3	ZZ
	Ø 76 X 4	ZZ
	Ø 89 X 3	ZZ
Stainless steel	Ø 50 X 1.5	ZZ
	Ø 60 X 2	ZZ
	Ø 76 X 3	ZZ
Aluminium, oxidation	Ø 50 X 1.5	ZZ
	Ø 60 X 2	ZZ
	Ø 76 X 3	ZZ

NGA – 4400 Series (Female Thread)



Tube Dia. (D)	Shaft Dia. (d)	A		Sprocket Type	d1
Ø50	Ø12/15	17	L=W+92	08B11T	Ø45.08
Ø60	Ø15	17	L=W+92	08B14T	Ø57.07
Ø76 / 89	Ø20	20	L=W+103	10A13T	Ø66.33

Tube	D X t	Bearing	Shaft Dia (d)
MS, Zinc-plated	Ø 50 X 1.5	ZZ	Ø12 (M 8 X 15)
	Ø 60 X 2 / 2.9	ZZ	Ø17 (M 8 X 15)
	Ø 76 X 3	ZZ	Ø20 (M 12 X 25)
	Ø 76 X 4	ZZ	Ø20 (M 12X 25)
	Ø 89 X 3	ZZ	Ø20 (M 12 X 25)
Stainless steel	Ø 50 X 1.5	ZZ	Ø12 (M 8 X 15)
	Ø 60 X 2	ZZ	Ø17 (M 8 X 15)
	Ø 76 X 3	ZZ	Ø20 (M 12X 25)
Aluminium, oxidation	Ø 50 X 1.5	ZZ	Ø12 (M 8 X 15)
	Ø 60 X 2	ZZ	Ø17 (M 8 X 15)
	Ø 76 X 3	ZZ	Ø20 (M12X 25)

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

Taper	Small Dia.	Turning Radius
3.6°	Ø56 mm	880 mm
3.6° optional	Ø50 mm	790 mm
3.6°	Ø56 mm	820 mm
3.6°	Ø56 mm	850 mm
3.6°	Ø56 mm	850 mm
3.6°	Ø56 mm	880 mm
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:

- ✓ The space between rollers could not be too close. In installation, to avoid mutual interference of rollers when running.

- ✓ Double sprocket tapered roller still need to follow the principle of pitch choice of double sprocket roller. Pitch should calculate by outboard sprocket.
- ✓ When curve convey adopts chain drive, to improve the drive, the included angle between tapered rollers should not exceed 5 °.
- ✓ For NGA-4400 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	Diameter
Tapered sleeve, nice, low noise	Ø 56
Tapered sleeve, O-Belt drive, light duty convey, Grooves position customized	Ø 50
Tapered sleeve, O-Belt drive, light duty convey, steady running	Ø 50
Tapered sleeve, MS-vee drive, middle duty convey, high speed, low noise	Ø 56
Tapered sleeve, MS sprocket, middle duty convey, nice, low noise	Ø 56
MS tube, middle duty convey, strong durable	Ø 50
MS tube, middle duty convey, strong durable	Ø 50

NGA – 4500 Series

Gravity Tapered Sleeve Roller

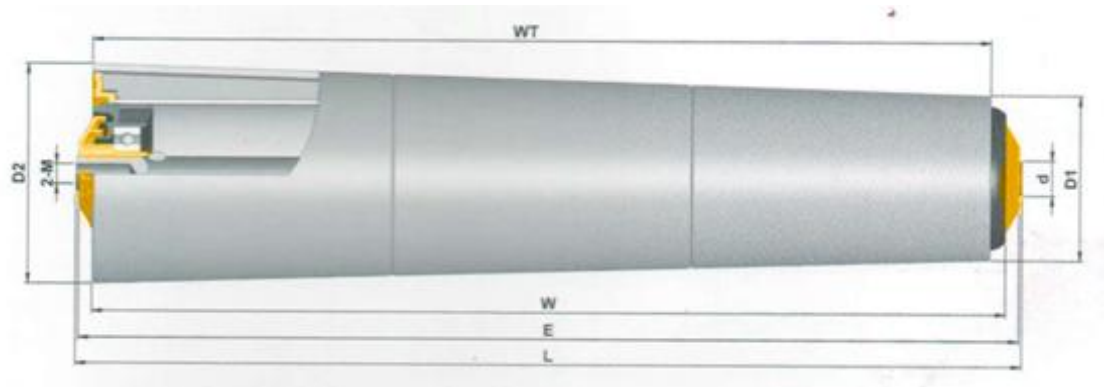
Product Features

- ✓ Covered with polypropylene (PP) taper sleeve; abrasion resistance, low noise, shockproof, not influenced by change of temperature and climate.
- ✓ Light weight, easy start-up.
- ✓ 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.
- ✓ The end cap of roller resists dust and water splash well in operation environment.
- ✓ Temperature range: 0 to +40°C

Parameters

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

NGA – 4600 Series (Female Thread)



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

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

NGA – 4700 Series

O-Belt tapered Sleeve Roller

Product features

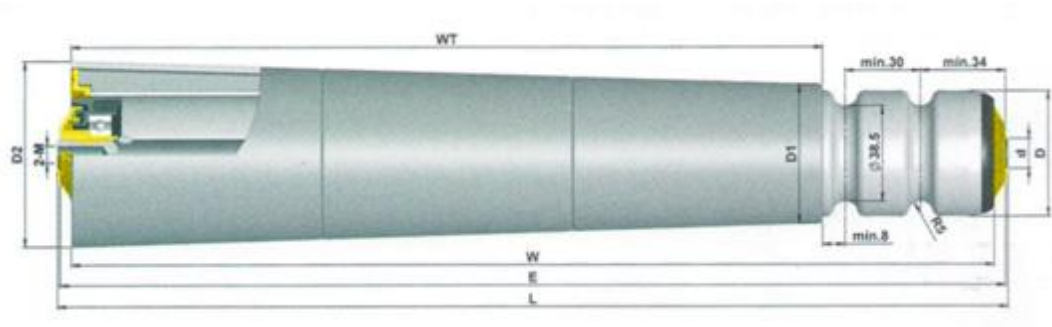
- ✓ Covered with polypropylene (PP) tapered sleeve; abrasion resistance, low noise, shockproof, not influenced by change of temperature and climate.
- ✓ Light weight, easy start-up.
- ✓ Except standard type, the position and number of grooves could be customized.
- ✓ The load capacity of roller depends on the driving power of "O-belt" and the transmission structure (line shaft drive is higher than hook-ups). Reference data is normally 300N.
- ✓ 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.
- ✓ 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-4800 Series (Female Thread)



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

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

NGA – 4900 (Series)

O-Belt wheel tapered sleeve roller

Product features

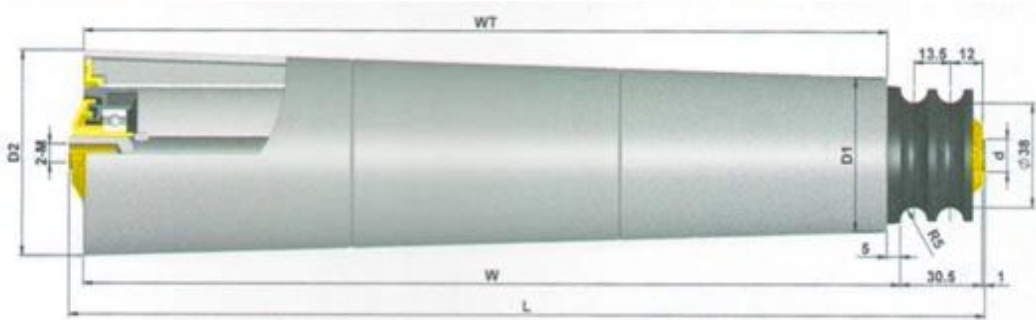
- ✓ Covered with polypropylene (PP) tapered sleeve, abrasion resistance, low noise, shockproof, not influenced by change of temperature and climate.
- ✓ Light weight, easy start-up.
- ✓ Moving the "O-belt" wheel to the end of the roller, make it separate between drive space and convey space, avoid the interference between "O-belt" and conveying goods, also avoid the oil from the surface of goods polluting the "O-belt"
- ✓ Because it is not grooving on the tube, the tube will not have any distortion, and the roller will run more smoothly.
- ✓ 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.
- ✓ 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.
- ✓ 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-5000 Series (Female Thread)



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

Tube	W
MS, Zinc-plated, Shaft Dia (d) Ø12 (M 8 X15) Ø15 (M 8 X 15)	230-305
	330-405
	430-505
	530-605
	630-705
	730-805

NGA-5100 Series

MS -vee Tapered Roller

Product features

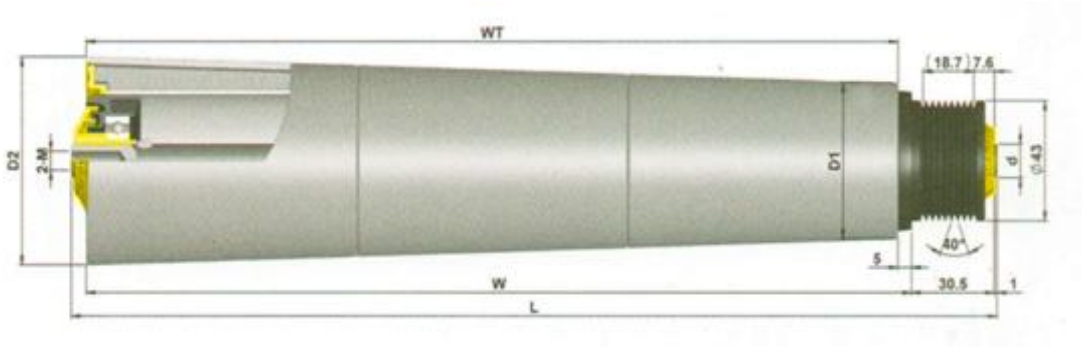
- ✓ Based on the NGA-2250 series, covered with polypropylene (PP) tapered sleeve; abrasion resistance, low noise, shockproof, not influenced by change of temperature and climate.
- ✓ Light weight, easy start-up.
- ✓ The assembly of MS-vee wheel and tube make it separate between drive space and convoy space, avoid the effect of oil from the surface of conveying goods to the MS-vee belt.
- ✓ MS-vee belt, pitch 2.34mm.
- ✓ The different pitch (centre distance between rollers) requires different type of poly-vee belt.
- ✓ 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.
- ✓ 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-5200 Series (Female Thread)



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

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

NGA-5300 (Series)

Polymer Sprocket Tapered Sleeve Roller

Product Features

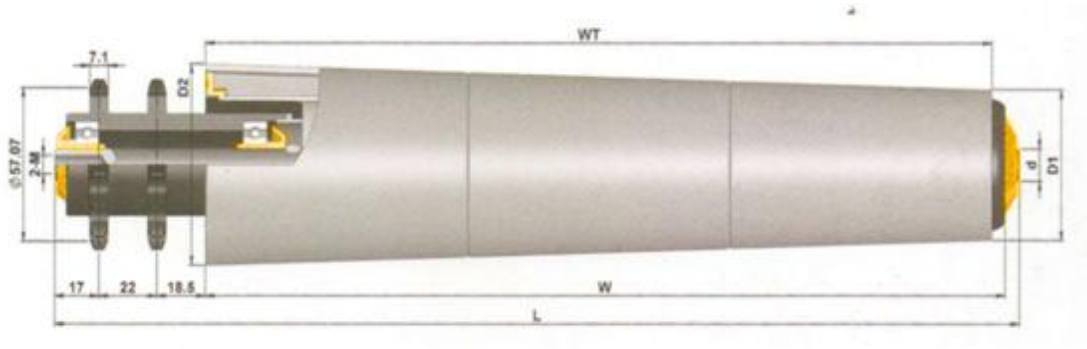
- ✓ Covered with polypropylene (PP) tapered sleeve; abrasion resistance, low noise, shockproof, not influenced by change of temperature and climate.
- ✓ Light weight, easy start-up.
- ✓ Adopt sprocket made of MS (MS Sprocket) as the driving element, the running noise is greatly lowed down compared with steel sprocket.
- ✓ 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-5400 Series (Female Thread)



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

Tube	W	Bearing
MS, Zinc plated, Tapered sleeve	230-305	ZZ
	330-405	ZZ
	430-505	ZZ
	530-605	ZZ
	630-705	ZZ
	730-805	ZZ

NGA-5500 Series

Gravity Tapered Roller

Product features

- ✓ The tapered tube made from 2mm steel plate, steel bearing housing of both sides welded with the tube, tight and durable.
- ✓ The end cap of roller resists dust and water splash well in operation environment.
- ✓ 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-5600 Series
 (Female Thread)



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

Tube	Bearing
MS, Zinc-plated	ZZ

NGA-5700 (Series)

Steel Sprocket Tapered Roller

Product Features

- ✓ Steel sprocket welded with tube, make it capable to transmit higher torque, and meet the request of transportation of heavy-duty load.
- ✓ The tapered tube made from 2mm steel plate, steel bearing housing of both sides welded with the tube, tight and durable.
- ✓ The bearing in the end of the sprocket is dismountable, good for maintenance and replacement.
- ✓ The covering of the end of roller, well dust proof and water splash proof in operation environment.
- ✓ Standard conical degree is 3.6°, other degree could be customized.
- ✓ 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-5800 Series (Female Thread)



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

Tube	Bearing
MS, Zic-plated	ZZ

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