

CCDM

天和机械



HuZhou CCDM Logistics Co.,Ltd
Conveyor design & manufacture

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CCDM

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As a typical series of gravity conveyor rollers, it has a wide range of applications, especially in the field of box conveyors.

The design of precision ball bearings and plastic inner and outer jackets constitutes a key bearing component. It is not only beautiful, but more importantly, makes the rollers run more quietly.

The design of the plastic end cap on the end of the roller can prevent the damage to the bearing from dust and splashing water to a certain extent.

Suitable for high-speed conveyance, the speed will vary according to the diameter and length of the drum, up to 120m/min.

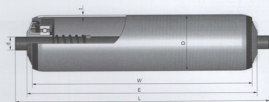
In cases where static electricity is likely to occur, antistatic configuration can be increased.

Applicable temperature: -5 °C to +40 °C.

Material	Diameter & thickness
Steel, Galvanized	Ø 38x1.2
	Ø 50x1.5
	Ø 50x2.0
	Ø 60x2.0
	Ø 60x3.0
Stainless steel	Ø 38x1.2
	Ø 50x1.5
	Ø 60x2.0

※ Ø 38,50,60mm rollers are available with PVC soft glue (2mm, 3mm)

TH1200 series Gravity conveyor roller series spring loaded



Diameter(D)	Shaft diameter(d)		
Ø 38	Ø 12/11hex	E=W+9	L=W+31
Ø 50	Ø 12/11hex	E=W+9	L=W+31
Ø 60	Ø 12/11hex	E=W+9	L=W+31

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The design of the plastic end cap on the end of the roller can prevent the damage to the bearing from dust and splashing water to a certain extent.

Suitable for high-speed conveyance, the speed will vary according to the diameter and length of the drum, up to 120m/min.

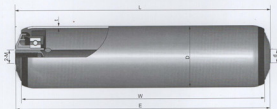
In cases where static electricity is likely to occur, antistatic configuration can be increased.

Applicable temperature: -5 °C to +40 °C.

Material	Diameter & thickness
Steel, Galvanized	Ø 38x1.2
	Ø 50x1.5
	Ø 50x2.0
	Ø 60x2.0
	Ø 60x3.0
Stainless steel	Ø 38x1.2
	Ø 50x1.5
	Ø 60x2.0

※ Ø 38,50,60mm rollers are available with PVC soft glue (2mm, 3mm)

TH1200 series Gravity conveyor roller series female thread



Diameter(D)	Shaft diameter(d)		
Ø 38	Ø 12	E=W+9	L=W+10
Ø 50	Ø 12/15	E=W+9	L=W+10
Ø 60	Ø 12/15	E=W+9	L=W+10

Ø12 (M8x15) Ø15 (M10x20) Ø20 (M12x25)

As a typical series of gravity conveyor rollers, it has a wide range of applications, especially in the field of box conveyors.

The design of precision ball bearings and plastic inner and outer jackets constitutes a key bearing component. It is not only beautiful, but more importantly, makes the rollers run more quietly.

The design of the plastic end cap on the end of the roller can prevent the damage to the bearing from dust and splashing water to a certain extent.

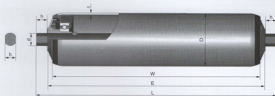
Suitable for high-speed conveyance, the speed will vary according to the diameter and length of the drums, up to 135m/min.

In cases where static electricity is likely to occur, antistatic configuration can be increased.

Applicable temperature: -5 °C to +40 °C.

Material	Diameter & thickness
Steel, Galvanized	Ø38x1.2
	Ø50x1.5
	Ø50x2.0
	Ø60x2.0
	Ø60x3.0
Stainless steel	Ø38x1.2
	Ø50x1.5
	Ø60x2.0

TH1200 series Gravity conveyor roller series Milling flat

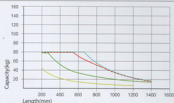


Diameter(D)	Shaft diameter(d)	E=W+9	L=W+31
Ø38	Ø12	E=W+9	L=W+31
Ø50	Ø12/15	E=W+9	L=W+31
Ø60	Ø12/15	E=W+9	L=W+31

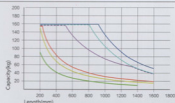
Ø12 (b/h=10/11) Ø15 (b/h=12/11)

× Ø38,50,60mm rollers are available with PVC soft glue (2mm, 3mm)

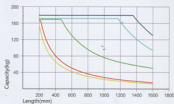
1200 series capacity graph



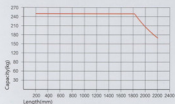
- Steel tube Ø38x1.2, shaft Ø12, female thread
- Steel tube Ø38x1.2, shaft Ø12, spring loaded
- Steel tube Ø38x1.2, shaft Ø10, spring loaded
- Steel tube Ø38x1.2, shaft Ø8, spring loaded



- Steel tube Ø50x2.0, shaft Ø12/15, female thread
- Steel tube Ø50x1.5, shaft Ø12/15, female thread
- Steel tube Ø50x1.5, shaft Ø15, milling flat
- Steel tube Ø50x1.5, shaft Ø12, spring loaded
- Steel tube Ø50x1.5, shaft 11 hex, spring loaded
- Steel tube Ø50x1.5, shaft Ø10, spring loaded



- Steel tube Ø60x3.0, shaft Ø17, female thread
- Steel tube Ø60x2.0, shaft Ø12/15, female thread
- Steel tube Ø60x2.0, shaft Ø15, milling flat
- Steel tube Ø60x2.0, shaft Ø12, spring loaded
- Steel tube Ø60x2.0, shaft 11 hex, spring loaded



- Steel tube Ø80x3.0, shaft Ø20, female thread

▲ The above curve data represent the uniform static load of the roller

Precision ball bearings are fixed in a steel stamped bearing housing, which is sturdy, durable and can withstand larger loads than plastic bearings.

The requirements for the use environment are not high, and the high and bottom temperatures can run well.

Full anti-static design.

Applicable temperature: -20 °C to +80 °C.

Material	Diameter & thickness
Steel Galvanized	Ø38x1.2
	Ø50x1.5
	Ø50x2.0
	Ø60x2.0
	Ø60x3.0
	Ø76x3.0
	Ø76x3.75
	Ø80x3.0
Stainless steel	Ø89x3.0
	Ø89x3.75
	Ø38x1.2
	Ø50x1.5
	Ø60x2.0
	Ø76x3.0

※ Ø38,50,60mm rollers are available with PVC soft glue (2mm, 3mm)

TH1800 series Gravity conveyor roller series spring loaded



Diameter(D)	Shaft diameter(d)		
Ø38	Ø12	E=W+10	L=W+32
Ø50	Ø12/15	E=W+10	L=W+32
Ø60	Ø12/15	E=W+10	L=W+32
Ø76	Ø15	E=W+10	L=W+32
Ø76	Ø20	E=W+10	L=W+40
Ø80	Ø20	E=W+10	L=W+40
Ø89	Ø20	E=W+10	L=W+40

Precision ball bearings are fixed in a steel stamped bearing housing, which is sturdy, durable and can withstand larger loads than plastic bearings.

The requirements for the use environment are not high, and the high and bottom temperatures can run well.

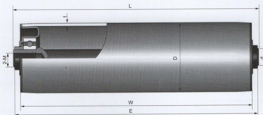
Full anti-static design.

Applicable temperature: -20 °C to +80 °C.

Material	Diameter & thickness
Steel Galvanized	Ø38x1.2
	Ø50x1.5
	Ø50x2.0
	Ø60x2.0
	Ø60x3.0
	Ø76x3.0
	Ø76x3.75
	Ø80x3.0
Stainless steel	Ø89x3.0
	Ø89x3.75
	Ø38x1.2
	Ø50x1.5
	Ø60x2.0
	Ø76x3.0

※ Ø38,50,60mm rollers are available with PVC soft glue (2mm, 3mm)

TH1800 series Gravity conveyor roller series female thread



Diameter(D)	Shaft diameter(d)		
Ø38	Ø12	E=W+10	L=W+11
Ø50	Ø12/15	E=W+10	L=W+11
Ø60	Ø12/15	E=W+10	L=W+11
Ø76	Ø15	E=W+10	L=W+11
Ø76	Ø20	E=W+10	L=W+11
Ø80	Ø20	E=W+10	L=W+11
Ø89	Ø20	E=W+10	L=W+11

Ø12 (M8x15) Ø15 (M10x20) Ø20 (M12x25)

Precision ball bearings are fixed in a steel stamped bearing housing, which is sturdy, durable and can withstand larger loads than plastic bearings.

The requirements for the use environment are not high, and the high and bottom temperatures can run well.

Full anti-static design.

Applicable temperature: -20 °C to +80 °C.

TH1800 series Gravity conveyor roller series Milling flat



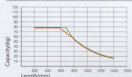
Material	Diameter & thickness
Steel, Galvanized	Ø38x1.2
	Ø50x1.5
	Ø50x2.0
	Ø60x2.0
	Ø60x3.0
	Ø76x3.0
	Ø76x3.75
	Ø80x3.0
Stainless steel	Ø89x3.0
	Ø89x3.75
	Ø38x1.2
	Ø50x1.5
	Ø60x2.0
	Ø76x3.0

Diameter(D)	Shaft diameter(d)	E=W+10	L=W+32
Ø38	Ø12	E=W+10	L=W+32
Ø50	Ø12/15	E=W+10	L=W+32
Ø60	Ø12/15	E=W+10	L=W+32
Ø76	Ø15	E=W+10	L=W+32
Ø76	Ø20	E=W+10	L=W+40
Ø80	Ø20	E=W+10	L=W+40
Ø89	Ø20	E=W+10	L=W+40

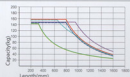
Ø12 (b/h=10/11) Ø15 (b/h=12/11) Ø20 (b/h=16/15)

※ Ø38,50,60mm rollers are available with PVC soft glue (2mm, 3mm)

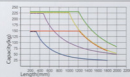
1800 series capacity graph



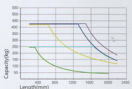
■ Steel tube Ø38x1.2, shaft Ø12, female thread
■ Steel tube Ø38x1.2, shaft Ø12, spring loaded



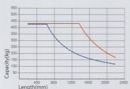
■ Steel tube Ø50x1.5, shaft Ø15, female thread
■ Steel tube Ø50x1.5, shaft Ø15, spring loaded
■ Steel tube Ø50x2.0, shaft Ø15, female thread
■ Steel tube Ø50x1.5, shaft Ø12, female thread
■ Steel tube Ø50x1.5/2.0, shaft Ø12, spring loaded



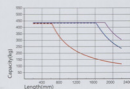
■ Steel tube Ø60x3.0, shaft Ø15, female thread
■ Steel tube Ø60x2.0, shaft Ø15, female thread
■ Steel tube Ø60x3.0, shaft Ø15, spring loaded
■ Steel tube Ø60x2.0, shaft Ø12, female thread
■ Steel tube Ø60x2.0, shaft Ø12, spring loaded



■ Steel tube Ø76x4.0, shaft Ø20, female thread
■ Steel tube Ø76x3.0, shaft Ø20, female thread
■ Steel tube Ø76x3.0/4.0, shaft Ø20, spring loaded
■ Steel tube Ø76x3.0, shaft Ø15, female thread
■ Steel tube Ø76x3.0, shaft Ø15, spring loaded



■ Steel tube Ø80x3.0, shaft Ø20, female thread
■ Steel tube Ø80x3.0, shaft Ø20, spring loaded



■ Steel tube Ø89x3.0, shaft Ø20, female thread
■ Steel tube Ø89x3.0, shaft Ø20, female thread
■ Steel tube Ø89x3.0/4.0, shaft Ø20, spring loaded

▲ The above curve data represent the uniform static load of the roller.

The steel sprocket is reliably welded to the cylinder, so that it can transmit higher torque, which can meet the requirements of medium and heavy pallet transportation.

The design of precision ball bearings and plastic inner and outer jackets constitutes a key bearing component. It is not only beautiful, but more importantly, makes the rollers run more quietly.

The design of the plastic end cap at the end of the roller can prevent the damage to the bearing from dust and splashing water to a certain extent.

Applicable temperature: -5°C to $+40^{\circ}\text{C}$.

TH2411 series Steel single sprocket conveyor roller female thread



Material	Diameter & thickness
Steel, Galvanized	$\varnothing 50 \times 1.5$
	$\varnothing 60 \times 2.0$
Stainless steel	$\varnothing 50 \times 1.5$
	$\varnothing 60 \times 2.0$

Diameter(D)	Shaft diameter(d)	sprocket	A	C	Graduated circle(d1)
$\varnothing 50$	$\varnothing 12/15$	$L=W+41$ 08B14T	17	18.5	$\varnothing 57.07$
$\varnothing 60$	$\varnothing 12/15$	$L=W+41$ 08B14T	17	18.5	$\varnothing 57.07$

$\varnothing 12$ (M8x15) $\varnothing 15$ (M10x20)

※ $\varnothing 50, 60\text{mm}$ rollers are available with PVC soft glue (2mm, 3mm)

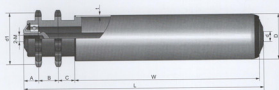
The steel sprocket is reliably welded to the cylinder, so that it can transmit higher torque, which can meet the requirements of medium and heavy pallet transportation.

The design of precision ball bearings and plastic inner and outer jackets constitutes a key bearing component. It is not only beautiful, but more importantly, makes the rollers run more quietly.

The design of the plastic end cap at the end of the roller can prevent the damage to the bearing from dust and splashing water to a certain extent.

Applicable temperature: -5°C to $+40^{\circ}\text{C}$.

TH2421 series Steel double sprocket conveyor roller female thread



Material	Diameter & thickness
Steel, Galvanized	$\varnothing 50 \times 1.5$
	$\varnothing 60 \times 2.0$
Stainless steel	$\varnothing 50 \times 1.5$
	$\varnothing 60 \times 2.0$

Diameter(D)	Shaft diameter(d)	sprocket	A	B	C	Graduated circle(d1)
$\varnothing 50$	$\varnothing 12/15$	$L=W+63$ 08B14T	17	22	18.5	$\varnothing 57.07$
$\varnothing 60$	$\varnothing 12/15$	$L=W+63$ 08B14T	17	22	18.5	$\varnothing 57.07$

$\varnothing 12$ (M8x15) $\varnothing 15$ (M10x20)

※ $\varnothing 50, 60\text{mm}$ rollers are available with PVC soft glue (2mm, 3mm)

The steel sprocket is reliably welded to the cylinder, which can transmit higher torque and can adapt to the requirements of heavy pallet transportation.

The precision ball bearing is fixed in a steel stamped bearing housing, which is sturdy and durable and can withstand larger loads than plastic bearings.

Does not require high use environment, can work well at high and low temperature.

Applicable temperature: -20 °C to +80 °C.

Material	Diameter & thickness
Steel, Galvanized	Ø 50x1.5
	Ø 50x2.0
	Ø 60x2.0
	Ø 60x3.0
	Ø 76x3.0
	Ø 76x3.75
	Ø 80x3.0
	Ø 89x3.0
Steel, Galvanized, outer welding steel flange	Ø 89x3.75
	Ø 76x3.0
	Ø 76x3.75
	Ø 89x3.0
	Ø 89x3.75
Stainless steel	Ø 50x1.5
	Ø 60x2.0
	Ø 76x3.0

※ Ø 50,60mm rollers are available with PVC soft glue (2mm, 3mm)

The steel sprocket is reliably welded to the cylinder, which can transmit higher torque and can adapt to the requirements of heavy pallet transportation.

The precision ball bearing is fixed in a steel stamped bearing housing, which is sturdy and durable and can withstand larger loads than plastic bearings.

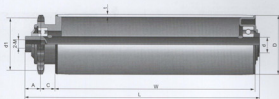
Does not require high use environment, can work well at high and low temperature.

Applicable temperature: -20 °C to +80 °C.

Material	Diameter & thickness
Steel, Galvanized	Ø 50x1.5
	Ø 50x2.0
	Ø 60x2.0
	Ø 60x3.0
	Ø 76x3.0
	Ø 76x3.75
	Ø 80x3.0
	Ø 89x3.0
Steel, Galvanized, outer welding steel flange	Ø 89x3.75
	Ø 76x3.0
	Ø 76x3.75
	Ø 89x3.0
	Ø 89x3.75
Stainless steel	Ø 50x1.5
	Ø 60x2.0
	Ø 76x3.0

※ Ø 50,60mm rollers are available with PVC soft glue (2mm, 3mm)

TH2311 series Steel single sprocket conveyor roller female thread



Diameter(D)	Shaft diameter(d)		sprocket	A	C	Graduated circle(d1)
Ø 50	Ø 12	L=W+41	08B11T	17	18.5	Ø45.08
Ø 50	Ø 15	L=W+41	08B14T	17	18.5	Ø57.07
Ø 60	Ø 12/15	L=W+41	08B14T	17	18.5	Ø57.07
Ø 76	Ø 15	L=W+41	08B14T	17	18.5	Ø57.07
Ø 76	Ø 20	L=W+44	10A13T	20	18.5	Ø66.33
Ø 80	Ø 20	L=W+44	10B15T	20	18.5	Ø76.35
Ø 89	Ø 20	L=W+44	10B15T	20	18.5	Ø76.35

Ø 12 (M8x15) Ø 15 (M10x20) Ø 20 (M12x25)

TH2321 series Steel double sprocket conveyor roller female thread



Diameter(D)	Shaft diameter(d)		sprocket	A	B	C	Graduated circle(d1)
Ø 50	Ø 12	L=W+63	08B11T	17	22	18.5	Ø45.08
Ø 50	Ø 15	L=W+63	08B14T	17	22	18.5	Ø57.07
Ø 60	Ø 12/15	L=W+63	08B14T	17	22	18.5	Ø57.07
Ø 76	Ø 15	L=W+63	08B14T	17	22	18.5	Ø57.07
Ø 76	Ø 20	L=W+69	10A13T	20	25	18.5	Ø66.33
Ø 80	Ø 20	L=W+69	10B15T	20	25	18.5	Ø76.35
Ø 89	Ø 20	L=W+69	10B15T	20	25	18.5	Ø76.35

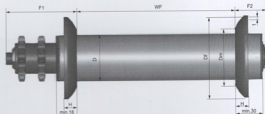
Ø 12 (M8x15) Ø 15 (M10x20) Ø 20 (M12x25)

Is the guiding method adopted by most pallets.

The steel flanges are reliably welded to the barrel, which is strong and durable.

Only for steel cylinders.

Steel flange conveyor roller welding

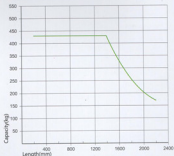
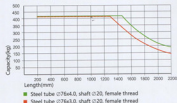
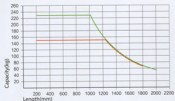
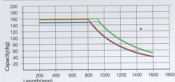


Unit: mm

D	Df	Dm	H	t
Ø60	Ø100	—	10	2
Ø76	Ø135	Ø88.5	16.5	4
Ø89	Ø150	Ø110	18	4

304 stainless steel flanges available

2311/2321 series capacity graph



The above curve data represent the uniform static load of the roller. You should also consider factors such as chain pulling force, motor power and other driving capabilities, with smaller values as the basis for calculation.

Through O-belt transmission, compared with sprocket transmission, it has low running noise and fast conveying speed. It is widely used in light and medium load box conveying.

The design of precision ball bearings and plastic inner and outer jackets constitutes a key bearing component. It is not only beautiful, but more importantly, makes the rollers run quieter.

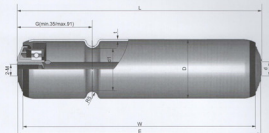
The design of the plastic end cap at the end of the roller can prevent the damage of dust and splashing water on the bearing to a certain extent.

The groove position can be customized as required.

Full anti-static design.

Applicable temperature: -5 °C to +40 °C.

TH2230 series Single groove O ring conveyor roller female thread



Material	Diameter & thickness
Steel, Galvanized	Ø50x1.5
	Ø60x2.0
Stainless steel	Ø50x1.5
	Ø60x2.0

Diameter(D)	Shaft diameter(d)			G	d1
Ø50	Ø12/15	E=W+9	L=W+10	65	Ø38.5
Ø60	Ø12/15	E=W+9	L=W+10	65	Ø48.0

Ø12 (M8x15) Ø15 (M10x20)

- ✳ Ø50,60mm rollers are available with PVC soft glue (2mm, 3mm)
- ✳ Shaft end installation method can be spring-loaded(Ø12)

Through O-belt transmission, compared with sprocket transmission, it has low running noise and fast conveying speed. It is widely used in light and medium load box conveying.

The design of precision ball bearings and plastic inner and outer jackets constitutes a key bearing component. It is not only beautiful, but more importantly, makes the rollers run quieter.

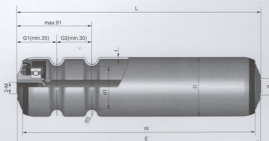
The design of the plastic end cap at the end of the roller can prevent the damage of dust and splashing water on the bearing to a certain extent.

The groove position can be customized as required.

Full anti-static design.

Applicable temperature: -5 °C to +40 °C.

TH2240 series Double groove O ring conveyor roller female thread



Material	Diameter & thickness
Steel, Galvanized	Ø50x1.5
	Ø60x2.0
Stainless steel	Ø50x1.5
	Ø60x2.0

Diameter(D)	Shaft diameter(d)			G1	G2	d1
Ø50	Ø12/15	E=W+9	L=W+10	35	30	Ø38.5
Ø60	Ø12/15	E=W+9	L=W+10	35	30	Ø48.0

Ø12 (M8x15) Ø15 (M10x20)

- ✳ Ø50,60mm rollers are available with PVC soft glue (2mm, 3mm)
- ✳ Shaft end installation method can be spring-loaded(Ø12)

The plastic multi-ribbed belt pulley is installed at the end of the roller, so that the driving and conveying are separated in the area, the conveying is more stable, and it has the characteristics of high speed and quietness.

The design of precision ball bearings and plastic inner and outer jackets constitutes a key bearing component. It is not only beautiful, but more importantly, makes the rollers run quieter.

The design of the plastic end cap at the end of the roller can prevent the damage of dust and splashing water on the bearing to a certain extent.

ISO9962, P1 type, groove pitch 2.34mm, 9 grooves in total.

Suitable for high-speed conveyance, the speed will vary according to the diameter and length of the roller, up to 120m/min.

Applicable temperature: -5 °C to +40 °C.

Material	Diameter & thickness
Steel, Galvanized	Ø50x1.5
Stainless steel	Ø50x1.5

※ Ø50mm rollers are available with PVC soft glue (2mm, 3mm)

The plastic multi-ribbed belt pulley is installed at the end of the roller, so that the driving and conveying are separated in the area, the conveying is more stable, and it has the characteristics of high speed and quietness.

The design of precision ball bearings and plastic inner and outer jackets constitutes a key bearing component. It is not only beautiful, but more importantly, makes the rollers run quieter.

The design of the plastic end cap at the end of the roller can prevent the damage of dust and splashing water on the bearing to a certain extent.

ISO9962, P1 type, groove pitch 2.34mm, 9 grooves in total.

Suitable for high-speed conveyance, the speed will vary according to the diameter and length of the roller, up to 120m/min.

Applicable temperature: -5 °C to +40 °C.

Material	Diameter & thickness
Steel, Galvanized	Ø50x1.5
Stainless steel	Ø50x1.5

※ Ø50mm rollers are available with PVC soft glue (2mm, 3mm)

The plastic O-belt is installed at the end of the roller, and the drive and conveyance are used to separate the area, eliminating the possibility of interference between the O-belt and the goods.

The design of precision ball bearings and plastic inner and outer jackets constitutes a key bearing component. It is not only beautiful, but more importantly, makes the rollers run quieter.

The design of the plastic end cap at the end of the roller can prevent the damage of dust and splashing water on the bearing to a certain extent.

Since the groove is not rolled on the cylinder, the cylinder is not deformed, and the transportation will be more stable.

Applicable temperature: -5 °C to +40 °C.

Material	Diameter & thickness
Steel, Galvanized	Ø50x1.5
Stainless steel	Ø50x1.5

※ Ø50mm rollers are available with PVC soft glue (2mm, 3mm)

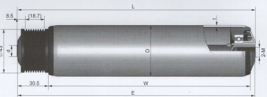
※ Shaft end installation method can be spring-loaded(Ø12)

TH2250 series Polymer vee poly wheel conveyor roller spring loaded



Diameter(D)	Shaft diameter(d)	E=W+35	L=W+57
Ø50	Ø12/11hex	E=W+35	L=W+57

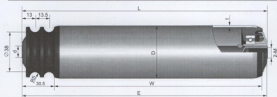
TH2250 series Polymer vee poly wheel conveyor roller female thread



Diameter(D)	Shaft diameter(d)	E=W+35	L=W+36
Ø50	Ø12/15	E=W+35	L=W+36

Ø12 (M8x15) Ø15 (M10x20)

TH2260 series Double groove O ring wheel conveyor roller female thread



Diameter(D)	Shaft diameter(d)	E=W+35	L=W+36
Ø50	Ø12/15	E=W+35	L=W+36

Ø12 (M8x15) Ø15 (M10x20)

Accumulation conveyor roller series

天和机械

Typical sleeve-type friction accumulation, the magnitude of the accumulation force is related to the load.

The design of precision ball bearings and plastic inner and outer jackets constitutes a key bearing component. It is not only beautiful, but more importantly, makes the rollers run quieter.

The design of the plastic end cap at the end of the roller can prevent the damage of dust and splashing water on the bearing to a certain extent.

Uses steel sprocket as driving element, more durable.

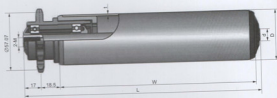
Usually suitable for transporting goods with a weight of 10-30kg.

Applicable temperature: -5 °C to +40 °C.

Please pay attention to the driving force to minimize the frictional resistance between the conveyed object and the guardrail. If you have no long-term running experience, please test the prototype first.

TH3211 series Steel single friction accumulation conveyor roller

female thread



Material	Diameter & thickness
Steel, Galvanized	Ø50x1.5
	Ø60x2.0
Stainless steel	Ø50x1.5
	Ø60x2.0

Diameter(D)	Shaft diameter(d)	L=W+41	sprocket
Ø50	Ø12/15	L=W+41	08B14T
Ø60	Ø12/15	L=W+41	08B14T
Ø12 (M8x15) Ø15 (M10x20)			

Typical sleeve-type friction accumulation, the magnitude of the accumulation force is related to the load.

The design of precision ball bearings and plastic inner and outer jackets constitutes a key bearing component. It is not only beautiful, but more importantly, makes the rollers run quieter.

The design of the plastic end cap at the end of the roller can prevent the damage of dust and splashing water on the bearing to a certain extent.

Uses steel sprocket as driving element, more durable.

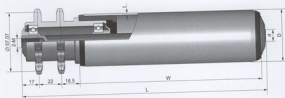
Usually suitable for transporting goods with a weight of 10-30kg.

Applicable temperature: -5 °C to +40 °C.

Please pay attention to the driving force to minimize the frictional resistance between the conveyed object and the guardrail. If you have no long-term running experience, please test the prototype first.

TH3221 series Steel double friction accumulation conveyor roller

female thread



Material	Diameter & thickness
Steel, Galvanized	Ø50x1.5
	Ø60x2.0
Stainless steel	Ø50x1.5
	Ø60x2.0

Diameter(D)	Shaft diameter(d)	L=W+63	sprocket
Ø50	Ø12/15	L=W+63	08B14T
Ø60	Ø12/15	L=W+63	08B14T
Ø12 (M8x15) Ø15 (M10x20)			

The amount of accumulated force can be adjusted by the end nut for greater flexibility.

Precision ball bearings are fixed in steel stamped bearings for ruggedness and durability.

Friction plate of special material greatly improves its abrasion resistance and significantly increases the service life.

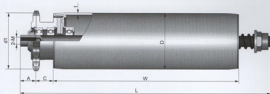
Usually suitable for transporting goods with a weight of 10-80kg.

Applicable temperature: -5 °C to +80 °C.

Please pay attention to the driving force to minimize the frictional resistance between the conveyed object and the guardrail. If you have no long-term running experience, please test the prototype first.

TH3816 series Steel single adjustable accumulation conveyor roller

female thread



Material	Diameter & thickness
Steel Galvanized	Ø50x1.5
	Ø60x2.0
	Ø76x3.0
Stainless steel	Ø50x1.5
	Ø60x2.0
	Ø76x3.0

Diameter(D)	Shaft diameter(d)		sprocket	A	C	Graduated circle
Ø50	Ø12	L=W+70	08B11T	17	18.5	Ø45.08
Ø60	Ø12/15	L=W+70	08B14T	17	18.5	Ø57.07
Ø76	Ø20	L=W+78	10A13T	20	18.5	Ø66.33

Ø12 (M8x15) Ø15 (M8x15) Ø20 (M12x25)

The amount of accumulated force can be adjusted by the end nut for greater flexibility.

Precision ball bearings are fixed in steel stamped bearings for ruggedness and durability.

Friction plate of special material greatly improves its abrasion resistance and significantly increases the service life.

Usually suitable for transporting goods with a weight of 10-80kg.

Applicable temperature: -5 °C to +80 °C.

Please pay attention to the driving force to minimize the frictional resistance between the conveyed object and the guardrail. If you have no long-term running experience, please test the prototype first.

TH3826 series Steel double adjustable accumulation conveyor roller

female thread



Material	Diameter & thickness
Steel Galvanized	Ø50x1.5
	Ø60x2.0
	Ø76x3.0
Stainless steel	Ø50x1.5
	Ø60x2.0
	Ø76x3.0

Diameter(D)	Shaft diameter(d)		sprocket	A	B	C	Graduated circle
Ø50	Ø12	L=W+92	08B11T	17	22	18.5	Ø45.08
Ø60	Ø12/15	L=W+92	08B14T	17	22	18.5	Ø57.07
Ø76	Ø20	L=W+103	10A13T	20	25	18.5	Ø66.33

Ø12 (M8x15) Ø15 (M8x15) Ø20 (M12x25)

Curved conveyor roller series

天和机械

The steel cone is reliably welded to the bearings at both ends, which is sturdy and durable and can withstand larger loads than plastic bearing housings.

The use of the environment is not high, high and low temperature can run well, can provide customized taper (standard value 3/8°).

Usually suitable for transporting goods with a weight not exceeding 200kg.

Applicable temperature: -5 °C to +80 °C.

Material	Tube length (W)	Big end diameter(D2)
Steel Galvanized	300	68.9
	400	75.1
	500	81.4
	600	87.7
	700	94
	800	100.3
	900	106.6
Stainless steel	1000	112.9
	300	68.9
	400	75.1
	500	81.4
	600	87.7
	700	94
	800	100.3 *
	900	106.6
	1000	112.9

TH1500 series Steel gravity taper conveyor roller female thread



Diameter(D1)	Shaft diameter(d)	
Ø 50	Ø12/15	L=W+11

Ø12 (M8x15) Ø15 (M10x20)

Mark: Available in steel galvanized and stainless steel.

The 1200 series is used as the design basis for the product. The plastic outer sleeve of the cylinder body is modular, with low running noise and shock resistance.

The design of precision ball bearings and plastic inner and outer jackets constitutes a key bearing component. It is not only beautiful, but more importantly, makes the rollers run quieter.

The design of the plastic end cap at the end of the roller can prevent the damage of dust and splashing water on the bearing to a certain extent.

Light weight roller with good starting performance.

Usually suitable for transporting goods with a weight of 50kg.

Applicable temperature: -5 °C to +40 °C.

Material	Diameter & thickness	WT	D1	D2
Steel Galvanized, tube jacket plastic cone sleeve	Ø50x1.5	250	Ø52.9	Ø68.6
		300	Ø56	Ø74.9
		350	Ø52.9	Ø74.9
		400	Ø56	Ø81.1
		450	Ø52.9	Ø81.1
		500	Ø56	Ø87.4
		550	Ø52.9	Ø87.4
		600	Ø56	Ø93.7
		650	Ø52.9	Ø93.7
		700	Ø56	Ø100
		750	Ø52.9	Ø100
		800	Ø56	Ø106.3
		850	Ø52.9	Ø106.3

TH1600 series Gravity tapered sleeve conveyor roller

female thread



Diameter(D1)	Shaft diameter(d)		
Ø 50	Ø12/15	E=W+9	L=W+10

Ø12 (M8x15) Ø15 (M10x20)

Mark: Available in steel galvanized and stainless steel.

The steel sprocket is reliably welded to the cylinder, so that it can transmit higher torque and can meet the requirements of medium and heavy load transportation.

The use of the environment is not high, both high and low temperature can run well, and can provide customized taper (standard value 3.6°).

To achieve better turning performance, the sprocket tooth thickness is slightly smaller.

Usually suitable for transporting goods with a weight not exceeding 200kg.

Applicable temperature: -10 °C to +80 °C.

Material	Tube length (W)	Big end diameter(D2)
Steel, Galvanized	300	68.9
	400	75.1
	500	81.4
	600	87.7
	700	94
	800	100.3
	900	106.6
	1000	112.9
Stainless steel	300	68.9
	400	75.1
	500	81.4
	600	87.7
	700	94
	800	100.3
	900	106.6
	1000	112.9

TH2521 series Steel double sprocket taper conveyor roller

female thread



Diameter(D1)	Shaft diameter(d)	sprocket
Ø50	Ø12/15	L=W+63

Ø12 (M8x15) Ø15 (M10x20)

Mark: Available in steel galvanized and stainless steel.

Based on the product design of the 2421 series, a modular plastic cone sleeve (gray) with a cylindrical jacket, low running noise and shock resistance.

The design of silent ball bearings and plastic inner and outer jackets constitutes a key bearing component. It is not only beautiful, but more importantly, makes the rollers run quieter.

The design of the plastic end cap at the end of the roller can prevent the damage of dust and splashing water on the bearing to a certain extent.

The included angle between the tapered rollers (axis included angle) is recommended not to exceed 5 degrees to prevent excessive wear on the sprocket and chain.

Usually suitable for transporting goods with a weight not exceeding 50kg.

Applicable temperature: -5 °C to +40 °C.

Material	Diameter & Thickness	WT	D1	D2
Steel, Galvanized, tube jacket plastic cone sleeve	Ø50x1.5	250	Ø52.9	Ø68.9
		300	Ø56	Ø74.9
		350	Ø52.9	Ø74.9
		400	Ø56	Ø81.1
		450	Ø52.9	Ø81.1
		500	Ø56	Ø87.4
		550	Ø52.9	Ø87.4
		600	Ø56	Ø93.7
		650	Ø52.9	Ø93.7
		700	Ø56	Ø100
		750	Ø52.9	Ø100
		800	Ø56	Ø106.3
		850	Ø52.9	Ø106.3

TH2624 series Steel double sprocket tapered sleeve conveyor roller

female thread



Diameter(D1)	Shaft diameter(d)	sprocket
Ø50	Ø12/15	L=W+63

Ø12 (M8x15) Ø15 (M10x20)

Mark: Available in steel galvanized and stainless steel.

Curved conveyor roller series

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The 2250 series is used as the design basis of the product. The cylindrical plastic outer sleeve (gray) is modular, which has low noise and shock resistance.

The polymer vee poly wheel is installed at the end of the roller, which makes the driving and conveying separated in the area, and the conveying is more stable.

The design of precision ball bearings and plastic inner and outer jackets constitutes a key bearing component. It is not only beautiful, but more importantly, makes the rollers run quieter.

The design of the plastic end cap at the end of the roller can prevent the damage of dust and splashing water on the bearing to a certain extent.

ISO9982, P1 type, groove pitch 2.34mm, 9 grooves in total. Load capacity depends on drive arrangement and vee poly.

Usually suitable for transporting goods with a weight not exceeding 30kg.

Light weight roller with good starting performance.

Applicable temperature: -5 °C to +40 °C

Material	Diameter & Thickness	WT	D1	D2
Steel, Galvanized, tube jacket plastic cone sleeve	Ø50x1.5	250	Ø52.9	Ø68.9
		300	Ø56	Ø74.9
		350	Ø52.9	Ø74.9
		400	Ø56	Ø81.1
		450	Ø52.9	Ø81.1
		500	Ø56	Ø87.4
		550	Ø52.9	Ø87.4
		600	Ø56	Ø93.7
		650	Ø52.9	Ø93.7
		700	Ø56	Ø100
		750	Ø52.9	Ø100
		800	Ø56	Ø106.3
		850	Ø52.9	Ø106.3

The 2260 series is used as the design basis of the product. The cylindrical plastic outer sleeve (gray) is modular, which has low noise and shock resistance.

The plastic O-belt is installed at the end of the roller, so that the driving and conveying are separated in the area, eliminating the possibility of interference between the O-belt and the goods.

The design of precision ball bearings and plastic inner and outer jackets constitutes a key bearing component. It is not only beautiful, but more importantly, makes the rollers run quieter.

The design of the plastic end cap at the end of the roller can prevent the damage of dust and splashing water on the bearing to a certain extent.

Since the groove is not rolled on the cylinder the cylinder is not deformed, and the transportation will be more stable.

The load capacity of the roller depends on the drive arrangement and the drive capacity of the O-belt. A single cargo generally does not exceed 30kg.

Applicable temperature: -5 °C to +40 °C

Material	Tube length (W)	WT	D1	D2
Steel, Galvanized, tube jacket plastic cone sleeve	Ø50x1.5	250	Ø52.9	Ø68.9
		300	Ø56	Ø74.9
		350	Ø52.9	Ø74.9
		400	Ø56	Ø81.1
		450	Ø52.9	Ø81.1
		500	Ø56	Ø87.4
		550	Ø52.9	Ø87.4
		600	Ø56	Ø93.7
		650	Ø52.9	Ø93.7
		700	Ø56	Ø100
		750	Ø52.9	Ø100
		800	Ø56	Ø106.3
		850	Ø52.9	Ø106.3

TH2650 series Polymer vee poly wheel tapered sleeve conveyor roller

female thread

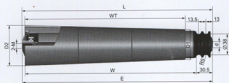


Diameter(D)	Shaft diameter(d)		
Ø50	Ø12/15	L=W+35	L=W+36
Ø12 (M8x15)	Ø15 (M10x20)		

Mark: Available in steel galvanized and stainless steel.

TH2660 series Double O ring wheel tapered sleeve conveyor roller

female thread

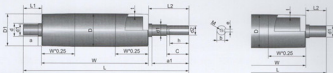


Diameter(D)	Shaft diameter(d)		
Ø50	Ø12/15	E=W+35	L=W+36
Ø12 (M8x15)	Ø15 (M10x20)		

Mark: Available in steel galvanized and stainless steel.

We are committed to providing you with standardized, serialized, and customizable high-strength, high-quality belt rollers of various types. Whether it is driving rollers, head and tail rollers, idlers, redirecting rollers, tensioning rollers, we can provide you with a one-stop solution.

Revolving shaft belt conveyor roller (Bearing outer)



Industry preferred size, others can be processed by drawing.

Total length of processable roller < 2500mm.

The barrel can be made of steel galvanized / hand-chrome plated / blackened or stainless steel, and the "general-purpose metal component rust inhibitor" can also be used as the finished roller anti-rust.

Increase friction, the surface of the roller can be covered with rubber, single-sided rubber more than 5mm, rubber material: natural rubber (black), nitrile rubber (black), polyurethane (black or yellow).

The standard configuration				Optional parameter		Size range		
Roller outer diameter(D)	Roller thickness(t)	Standard shaft diameter(D1)	Drum(D1)	Optional shaft diameter(t)	W	L	L1/L2	
Q59	(4.5)	Q25	Q57.6	Q20	250-1400	≤1600	≤280	
Q75	(4.5)	Q30	Q73.6	Q25	250-1400	≤1600	≤280	
Q87	(4.5)	Q30	Q85.6	Q35	250-1400	≤1600	≤185	
Q100	(6.0)	Q30	Q98	Q35	250-1400	≤1600	≤280	
Q112	(6.0)	Q35	Q110	Q40	250-1400	≤1600	≤185	
Q119	(6.0)	Q35	Q117	Q40	250-1400	≤1600	≤280	
Q130	(6.5)	Q35	Q127	Q40	70-1800	≤2400	≤300	
Q156	(6.5)	Q35	Q153	Q40	70-1800	≤2400	≤300	
Q176	(6.0)	Q40	Q173	Q45	70-1800	≤2400	≤300	
Q200	(6.5)	Q35	Q196	Q200/5.5	70-1800	≤2400	≤300	

Fixed shaft belt conveyor roller (Bearing inner)



Industry preferred size, others can be processed by drawing.

Total length of processable roller < 2500mm.

The barrel can be made of steel galvanized / hand-chrome plated / blackened or stainless steel, and the "general-purpose metal component rust inhibitor" can also be used as the finished roller anti-rust.

The standard configuration				Size range	
Roller outer diameter(D)	Roller thickness(t)	Standard shaft diameter(D1)	Bearing	Drum(D1)	W
Q51	(3.0)	Q20	6204	/	70-1300
Q59	(4.5)	Q25	6205	Q57.6	70-1800
Q75	(4.5)	Q25	6205	Q73.6	70-1800
Q79	(4.5)	Q30	6306	Q77.6	70-1800
Q87	(4.5)	Q25	6205	Q85.6	70-1800
Q100	(6.0)	Q30	6306	Q98	70-1800
Q112	(6.0)	Q30	6306	Q110	70-1800
Q119	(6.0)	Q40	6308	Q117	70-1800

CCDM

天和机械

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