

## Accumulation with gentle accumulation pressure

# **Product Description**

Customer benefits	<ul> <li>Exceptionally low-noise operation <ul> <li>Polyamide or POM drive heads (alternatively made of steel)</li> </ul> </li> <li>Replaceable drive heads for fixed and friction drives <ul> <li>Fixed bearing housing for attachable drive heads</li> </ul> </li> <li>Weight-dependent accumulation pressure and weight-dependent conveyance <ul> <li>Radial friction coupling in the conveyor roller</li> </ul> </li> <li>Comprehensive drive versions <ul> <li>Toothed and flat belts; chain drive 1/2" Z9, Z11, Z14</li> </ul> </li> </ul>
Applications	<ul> <li>Accumulation operation with gentle accumulation pressure of medium-heavy materials to be conveyed</li> <li>Drums, tyres, boxes</li> </ul>
Properties	<ul> <li>Sealed precision ball bearing (6002 2RZ)</li> <li>Series 3800 based on Series 1700</li> </ul>
Associated platform	Platform 1700

# **Technical Data**

General technical data	
Max. load capacity	500 N
Max. conveyor speed	0.5 m/s
Temperature range	-5 to +40 °C
Materials	
Bearing housing	Polyamide
Drive head	Polyamide, I
Friction coupling	Polyamide
Seal	Polypropyler
Ball bearing	Steel 6002 2

The load capacity depends on the shaft version, the tube diameter, the length of the roller and the torque transmission.

#### Female threaded shaft version

Tube	Ball bearing	Torque transmission	Ø Tube	Ø Shaft	Max. load capacity in N						
material			mm	mm	with an installation length of mm						
					200	400	600	800	1000	1200	1400
PVC	6002 2RZ	Polymer sprocket Z = 11	50 x 2.8	14	300	300	110	40	_	-	_
		1 & 2 polymer sprockets Z = 14	50 x 2.8	14	350	265	90	50	_	_	-
		Toothed belt head Z = 18									
Steel, zinc- plated	6002 2RZ	Polymer sprocket Z = 11	50 x 1.5	14	300	300	300	300	300	290	250
		1 & 2 polymer sprockets Z = 14	50 x 1.5	14	500	500	500	500	500	500	500
		Toothed belt head Z = 18	50 x 1.5								
		1 & 2 polymer sprockets Z = 14	60 x 1.5	14	500	500	500	500	500	500	500
		Toothed belt head Z = 18	60 x 1.5								
		1 & 2 steel sprockets	50 x 1.5	14	500	500	500	500	500	500	500
		Z = 14	60 x 1.5	500	500	500	500	500	500	500	

Conveyor Rollers Friction drive Series 3800

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POM, steel

ne 2RZ

#### Load capacity



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## **Product Selection**

#### Standards

#### Female threaded shaft version

Tube			Ball bearing	Shaft			
				Reference number			
Material	Ømm	Torque transmission		Ø 14 mm (M8 x 15)			
PVC	50 x 2.8	Polymer sprocket 1/2", Z = 14	6002 2RZ	3.8M3.SAA.N90			
		Polymer sprocket 1/2", Z = 11	6002 2RZ	3.8M1.SAA.N90			
		2 polymer sprockets 1/2", Z = 14	6002 2RZ	3.8M5.SAA.N91			
Steel, zinc-plated	50 x 1.5	Toothed belt head	6002 2RZ	3.8B2.JAA.N90			
		Steel sprocket 1/2", Z = 14	6002 2RZ	3.80R.JAA.N7S*			
		Steel sprocket 1/2", Z = 14	6002 2RZ	3.8J6.JAA.N90			
		Polymer sprocket 1/2", Z = 14	6002 2RZ	3.8L7.JAA.N90			
		Polymer sprocket 1/2", Z = 11	6002 2RZ	3.8L2.JAA.N90			
		2 steel sprockets 1/2", Z = 14	6002 2RZ	3.8K9.JAA.N91			
		2 polymer sprockets 1/2", Z = 14	6002 2RZ	3.8LC.JAA.N91			

# 16.5 $0^{\circ}$ $0^{\circ$

#### Dimensions for polymer sprocket 1/2", Z = 14

Dimensions for polymer sprocket 1/2", Z = 11

\*Adjustable friction

#### Example of a reference number: 3.8L7.JAA.N90 - 460

Ordering example

**Dimensions** 

This reference number is for a Conveyor Roller Series 3800, steel, zinc-plated, Ø tube 50 mm, polymer sprocket  $1/2^{\circ}$ , Z = 14, Ø shaft 14 mm, female threaded shaft and reference length 460 mm. The reference length RL can be found on the dimensioned drawing: RL = EL - 40. The axial play of the sides of 1 mm and 0.5 mm has already been taken into account. The nominal clearance of your conveyor is 500 mm, which also corresponds to the installation length EL, i. e. the reference length is: 500 - 40 = 460 mm.

RL	Reference length/Ordering length*
EL	Installation length
AGL	Total length of shaft

\*The reference length/ordering length RL does not have any reference edges on the conveyor roller and can therefore not be shown.











Dimensions for steel sprocket 1/2", Z = 14



Dimensions for 2 steel sprockets 1/2", Z = 14



Dimensions for toothed belt head T = 8, Z = 18





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# Options

We can offer you the following options in addition to our standard products:

Antistatic version



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