

DOUBLE FRICTION CONVEYOR ROLLER SERIES 3870



Conveyor Rollers
Friction drive
Series 3870

Accumulation with increased conveyor forces

Product Description

- Simultaneous conveyance and accumulation with one drive
 - Mechanical solution with friction coupling in the conveyor roller
 - Weight-dependent accumulation pressure and weight-dependent conveyance
 - Radial friction coupling in the conveyor roller
 - Increased conveying forces for critical materials to be conveyed
 - Radial friction coupling at both sides joined by coupling tube
 - Comprehensive drive versions
 - Roller-to-roller and tangential chain drive
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- In-house accumulation roller conveyors with increased accumulation pressure
 - Medium-heavy materials to be conveyed
 - Boxes
 - Containers
 - Trays
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- Sealed precision ball bearing (6002 2RZ)
 - Polyamide steel sprockets, press-fitted onto the tube
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- 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
Friction coupling	Polyamide
Seal	Polyamide
Ball bearing	Steel 6002 2RZ

The load capacity depends on the length of the roller.

Female threaded shaft version

Tube material	Ball bearing	Torque transmission	Ø Tube mm	Ø Shaft mm	Max. load capacity in N with an installation length of mm			
					200	1,100	1,300	1,500
Steel, zinc-plated	6002 2RZ	at will	50 x 1.5	14	500	500	440	280

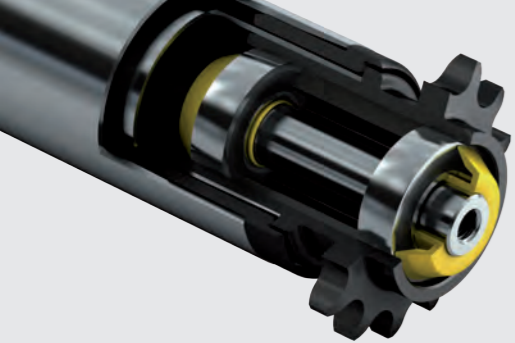
Load capacity

Customer benefits

Applications

Properties

Associated platform



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Product Selection

Female threaded shaft version

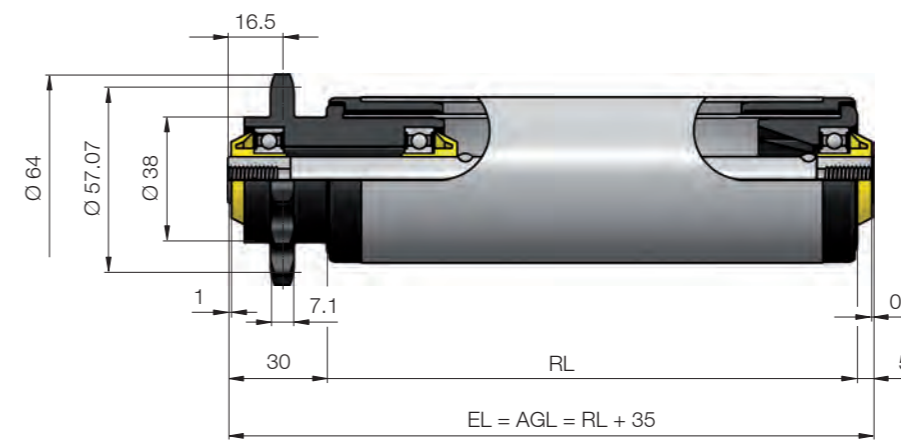
Tube			Ball bearing	Shaft
Material	Ø mm	Torque transmission		Reference number
Steel, zinc-plated	50 x 1.5	Polymer sprocket 1/2", Z = 14	6002 2RZ	Ø 14 mm (M8 x 15) 3.84P.JPB.N9C
		2 polymer sprockets 1/2", Z = 14		3.84V.JPB.N9L

Example of a reference number: 3.84P.JPB.N9C - 465

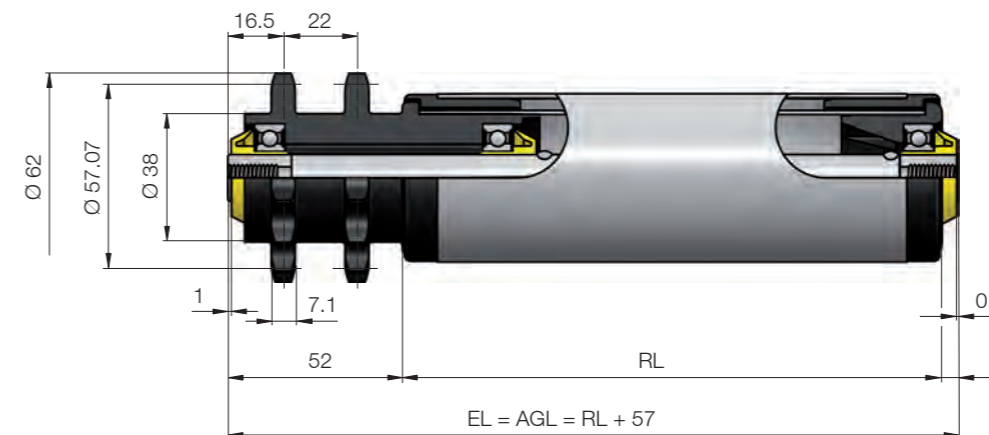
This reference number is for a Conveyor Roller Series 3870, Ø tube 50 mm, polymer sprocket 1/2", Z = 14, Ø shaft 14 mm, female threaded shaft and reference length 465 mm. The reference length RL can be found on the dimensioned drawing: $RL = EL - 35$. The axial play of the sides of 1 mm and 0.5 mm has 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: $500 - 35 = 465$ mm.

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

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



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



Dimensions

Standards

Ordering example