

HEAVY-DUTY CONVEYOR ROLLER SERIES 1450



Conveyor Rollers
Gravity
Series 1450

Universal and stable gravity conveyor roller for heavy loads

Product Description

- Universal conveyor roller for heavy loads
 - Load capacity up to 5,000 N
- Silent conveyor roller
 - Precision ball bearing, bearing housing made of polyamide and seal of polypropylene
- Protects the ball bearing from coarse dirt and water
 - Additional sealing lip in front of sealed precision ball bearing
- Axial loads are possible
 - Axial forces diverted by ball bearing
- Gentle lateral pushing of the materials to be conveyed
 - Rounded tube ends

- In-house conveyor technology
- Gravity conveyor track for pallets, steel containers etc.

- Sealed precision ball bearing (6205 2RZ)
- Form-fit axial fixing of bearing housing, ball bearing and seal
- Steel bearing housing for use in refrigerated applications

- Platform 1450

Technical Data

General technical data

Max. load capacity	5,000 N
Max. conveyor speed	0.80 m/s
Temperature range	-5 to +40 °C
Temperature range for steel bearing housing	-28 to +80 °C

Materials

Bearing housing	Polyamide
Seal	Polyamide
Ball	6205 2RZ

The dynamic load and the surface load are the assumptions for the load capacity.

Female threaded shaft version

Tube material	Ball bearing	Ø Tube mm	Ø Shaft mm	Max. load capacity in N with an installation length of mm						
				200	1,000	1,200	1,400	1,600	1,800	2,000
Steel, zinc- plated	6205 2RZ	80 x 2	20	5,000	5,000	4,400	3,200	2,440	1,920	1,550
		80 x 3	20	5,000	5,000	5,000	4,630	3,520	2,770	2,240
		89 x 3	20	5,000	5,000	5,000	5,000	4,910	3,860	3,120

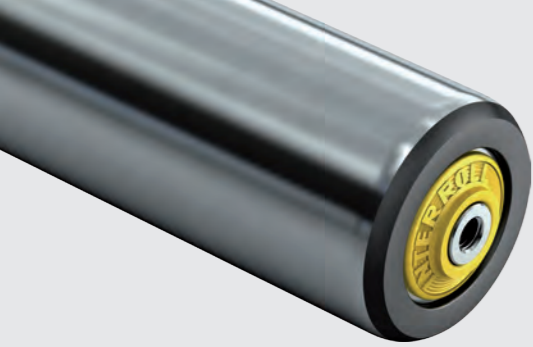
Load capacity

Customer benefits

Applications

Properties

Associated platform



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Product Selection

Female threaded shaft version

Tube		Ball bearing	Shaft	
Material	Ø mm		Reference number	
Steel, zinc-plated	80 x 2.0	6205 2RZ	Ø 20 mm (M10 x 20)	Ø 20 mm (M12 x 20)
	80 x 3.0		1.450.JAC.S12	1.450.JAC.S03
	89 x 3.0		1.453.J8A.S12	1.453.J8A.S03
			1.455.J8B.S12	1.455.J8B.S03

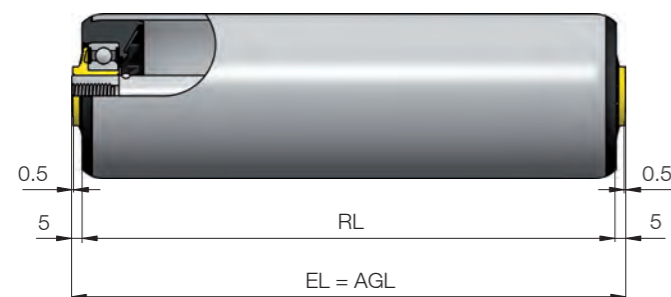
Please state in addition to the reference number the reference length RL and optionally the dimensions for the tube sleeve.

Example of a reference number: 1.453.J8A.S03 - 490

This reference number is for a Conveyor Roller Series 1450, Ø tube 80 x 3 mm, Ø shaft 20 mm, female threaded shaft and reference length 490 mm. The reference length RL can be found in the table of dimensions for female threaded shafts: $RL = EL - 10$. The axial play of 0.5 mm per side 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: $500 - 10 = 490$ mm.

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

Dimensions for female threaded shaft



Ø Shaft mm	Thread mm	Ø Tube mm	RL mm
20	M10/12 x 20	80/89	EL - 10

Options

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

- Flanges
- Tube sleeves for Ø 80 mm
 - Flexible PVC sleeve
 - Rubber coating
- Steel bearing housing for refrigerated applications of -28 °C up to +80 °C

Standards

Ordering information

Ordering example

Dimensions