ROLLERS
SERIES 3500KXO LIGHT
Fixed drive curve roller

Application area
Driven unit handling conveying, such as transport of small cardboards or containers. Suitable for implementing driven roller curves in the packaging industry and for assembly machines as well as for implementing machine chains.

Good starting properties
Since the tapered elements are mode of polypropylene, the net weight is low.

Tight curve radii
Using elements with a conicity of 1.8° allows implementing curve radii of only 357 mm.

Robust construction
The tapered elements are abrasion-proof, noise-reducing, impact-resistant and excel through a high weather-resistance.

Additional components in the scope of delivery
The rollers are delivered with four taper disks and two ball sockets so that an angle compensation can be created during fastening.

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Technical data

General technical data	
Platform	1700
Max. load capacity	150 N
Max. conveyor speed	0.8 m/s
Anti-static version	No
Temperature range	–5 to +40 °C with greased ball bearing
Material	
Tube	Zinc-plated steel, stainless steel, aluminum
Shaft	Uncoated steel, zinc-plated steel, stainless steel
Tapered cones	Polypropylene, RAL9005 (jet black)
Bearing housing	Polyamide, RAL9005 (jet black)
Seal	Polypropylene, RAL1021 (rape yellow)
End cover	Cover from round belt guides; starting at a reference length of 300 mm, the round belt guides no longer cover the tapered element in its entirety
Drive head	Polyamide RAL 9005 (jet black)
Bearing version	Precision steel ball bearing 689 2Z, bearing play C0

An antistatic element is always present in the tube of a roller with tapered elements.

Design versions

Shaft: Ø 8 mm with M6 x 15 female thread

Reference length with tapered elements with round belt guides

Reference length [mm]	150	200	250	300	350	400	450	500	550	600
Min. Ø [mm]	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
Max. Ø [mm]	31.4	34.5	37.7	40.8	43.9	47.1	50.2	53.4	56.5	59.6

The specified minimum diameters refer to the smallest diameter of the first tapered element. Other lengths except the listed reference lengths are not available. A tube projection is not possible.

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Load capacities of series 3500KXO light with screw-connected installation

The load capacity table refers to a temperature range of +5 to +40 °C.
Valid for the following shaft designs: female thread.

Bearing: 689 2Z.

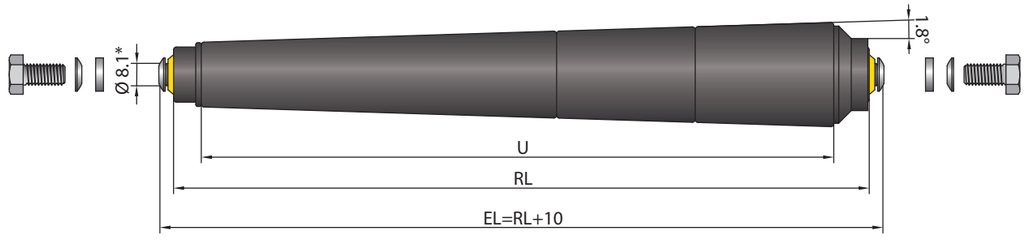
Tube material	Ø Tube/thickness [mm]	Drive element	Ø Shaft [mm]	Maximum static load [N] for installation length [mm]		
				200	400	600
Zinc-plated steel, stainless steel, aluminum	20 x 1.5	Round belt guides on large diameter	8	150	150	150

Dimensions

A sufficient axial play is already taken into account, so that the actual lane width between side profiles is required. The dimensions of the conveyor roller depend on the shaft version and the drive element.

RL = Reference length/ordering length
EL = Installation length, inside diameter between side profiles
U = Usable tube length: Length of tapered elements

Fastening with angle compensation disks



* The recommended profile holes have a dimension of Ø 8.1 mm

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Ø Tube [mm]	Tube material	Ø Shaft [mm]	RL [mm]	U [mm]	Min. Ø [mm]	Max. Ø [mm]
20 x 1.5	Zinc-plated steel/stainless steel/ aluminum	8	150	128	23.4	31.4
			200	178	23.4	34.5
			250	228	23.4	37.7
			300	278	23.4	40.8
			350	328	23.4	43.9
			400	378	23.4	47.1
			450	428	23.4	50.2
			500	478	23.4	53.4
			550	528	23.4	56.5
			600	578	23.4	59.7

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