

ROLLERS SERIES 1700KXO

Tapered universal conveyor roller



Application area

Driven unit handling conveying in the curve section, e.g. of cardboards, containers or tires. Suitable for implementing gravity or driven roller curves. Tight curve radii are possible if tapered elements with a conicity of 2.2° are used.

High reliability

This roller series has been proven millions of times. Contrary to conventional curve rollers, the elements are secured against shifting. This allows the roller to offer a very high degree of functional dependability.

Low-noise

The use of precision ball bearings, Technopolymer bearing housings and seals result in very quiet running.

Good protection against dirt and water

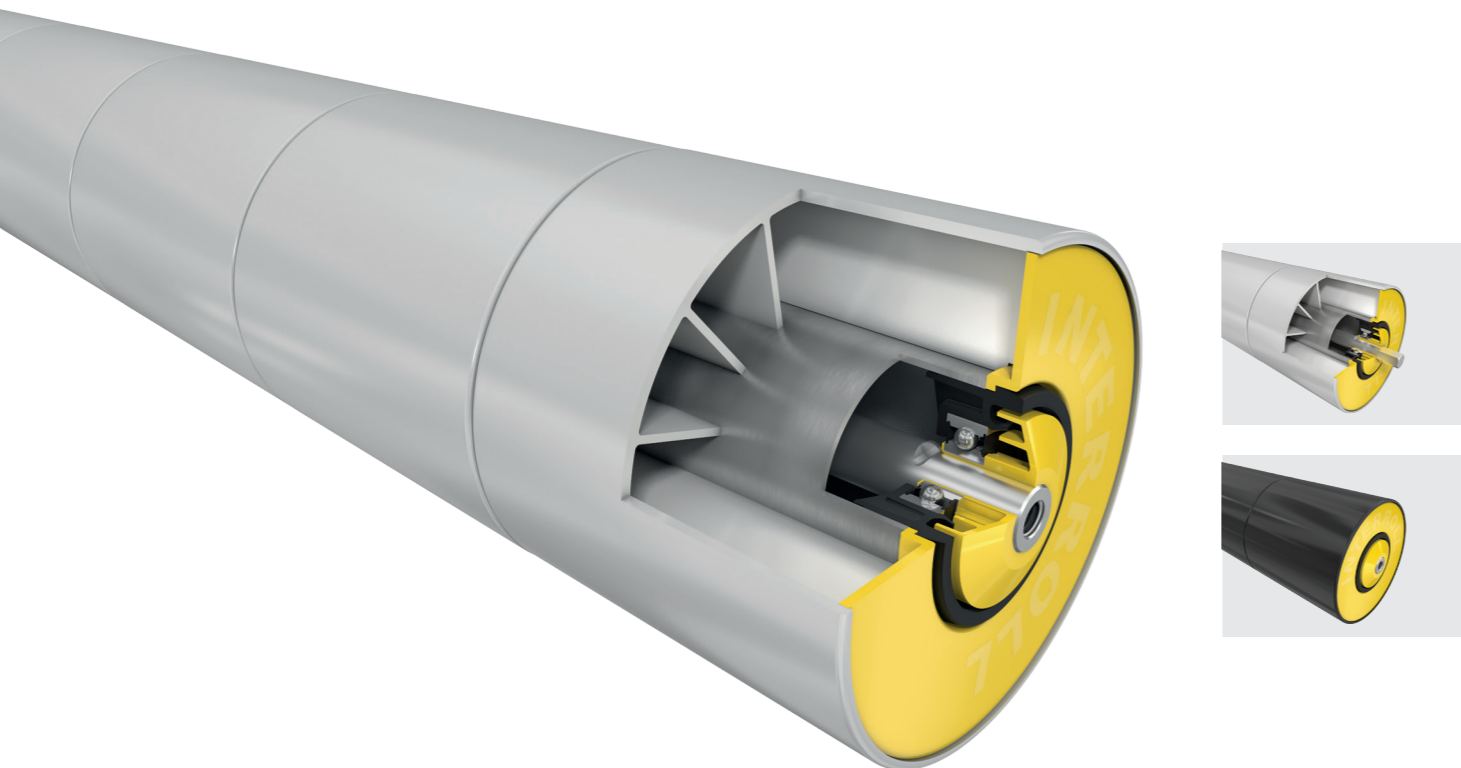
The roller excels with a good protection against coarse dirt and dripping water. An integrated groove ensures that water can be rejected.

Good running properties

The tapered elements made of polypropylene distinguish themselves with a low net weight so that good startup properties can be achieved.

Robust construction

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



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Technical data

General technical data			
Differentiation of tapered elements	Conicity 1.8°	Conicity 1.8°	Conicity 2.2°
	Color Gray	Color Black	Color Gray
Inner curve radius	800/850 mm	800/850 mm	690 mm
Platform	1700	1700	1700
Max. load capacity	500 N	500 N	500 N
Max. conveyor speed	2 m/s	2 m/s	2 m/s
Anti-static version (< 10 ⁶ Ω)	No	Yes	No
Impact-resistant version	Yes	Yes	Yes
Temperature range	-5 to +40 °C with greased ball bearing -28 to +20 °C with oiled ball bearing	-5 to +40 °C with greased ball bearing -28 to +20 °C with oiled ball bearing	-5 to +40 °C with greased ball bearing -28 to +20 °C with oiled ball bearing
Material			
Tube	Zinc-plated steel, stainless steel, aluminum	Zinc-plated steel, stainless steel, aluminum	Zinc-plated steel, stainless steel, aluminum
Shaft	Uncoated steel, zinc-plated steel, stainless steel	Uncoated steel, zinc-plated steel, stainless steel	Uncoated steel, zinc-plated steel, stainless steel
Color of tapered elements	RAL7030 (stone gray)	RAL9005 (jet black)	RAL7030 (stone gray)
Tapered cone material	Polypropylene	Polypropylene	Polypropylene
Bearing housing	Polyamide, RAL9005 (jet black)	Polyamide, RAL9005 (jet black)	Polyamide, RAL9005 (jet black)
Seal	Polypropylene, RAL1021 (rape yellow)	Polypropylene, RAL1021 (rape yellow)	Polypropylene, RAL1021 (rape yellow)
End cover of the last tapered element	Polypropylene, RAL1021 (rape yellow)	Polypropylene, RAL1021 (rape yellow)	Metal disk, not completely closing element
Bearing version	Precision steel ball bearing 6002 2RZ, precision stainless steel ball bearing 6002 2RZ, bearing play each C3		

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

To prevent any damages from static charging or discharging, Interroll recommends the use of black tapered elements.

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Design versions

Lubrication options for ball bearing	Greased for an ambient temperature from -5 to +40 °C (standard) Oiled for an ambient temperature from -28 to +20 °C
Shafts	The following are available in addition to the variants listed in the load capacity tables: <ul style="list-style-type: none"> • With spring on both sides • With variable length • Different design of both shaft ends
Tube	The following are available in addition to the variants listed in the load capacity tables: <ul style="list-style-type: none"> • With grooves, e.g. for guiding round belts

Load capacities of series 1700KXO with screw-connected installation

The following load capacity table refers to a temperature range from -5 to +40 °C and to a tube without grooves. The maximum static load at -28 °C to -6 °C measures 350 N.

Valid for the following shaft designs: female thread or male thread.

Bearing: 6002 2RZ.

Tube material	Ø Tube / thickness [mm]	Ø Shaft [mm]	Maximum static load [N] for installation length [mm]						
			200	300	400	600	800	900	1000
Steel	50 x 1.5	11 HEX, 12, 14	500	500	500	500	500	500	500
Aluminum	50 x 1.5	14	500	500	500	500	500	500	500

HEX = hexagon

Load capacities of series 1700KXO with loose installation

The following load capacity table refers to a temperature range from -5 to +40 °C and to a tube without grooves. The maximum static load at -28 °C to -6 °C measures 350 N.

Valid for the following shaft designs: spring-loaded shaft, fixed shaft or flatted shaft.

Bearing: 6002 2RZ.

Tube material	Ø Tube / thickness [mm]	Ø Shaft [mm]	Maximum static load [N] for installation length [mm]						
			200	300	400	600	800	900	1000
Steel	50	8	500	465	340	220	165	145	130
		10	500	500	500	500	415	370	335
		11 HEX, 12	500	500	500	500	500	500	500

HEX = hexagon

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Dimensions

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

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

Reference lengths with tapered elements

Conicity: 1.8°, color: gray (not antistatic)			Conicity: 1.8°, color: black (antistatic)		
Reference length [mm]	Min. Ø [mm]	Max. Ø [mm]	Reference length [mm]	Min. Ø [mm]	Max. Ø [mm]
150	55.6	64.8	150	55.6	64.8
200	52.5	64.8	200	52.5	64.8
250	55.6	71.2	250	55.6	71.2
300	52.5	71.2	300	52.5	71.2
350	55.6	77.6	350	55.6	77.6
400	52.5	77.6	400	52.5	77.6
450	55.6	84.0	450	55.6	84.0
500	52.5	84.0	500	52.5	84.0
550	55.6	90.4	550	55.6	90.4
600	52.5	90.4	600	52.5	90.4
650	55.6	96.8	650	55.6	96.8
700	52.5	96.8	700	52.5	96.8
750	55.6	103.2	750	55.6	103.2
800	52.5	103.2	800	52.5	103.2
850	55.6	109.9	-	-	-
900	52.5	109.9	-	-	-
950	55.6	116.0	-	-	-
1000	52.5	116.0	-	-	-

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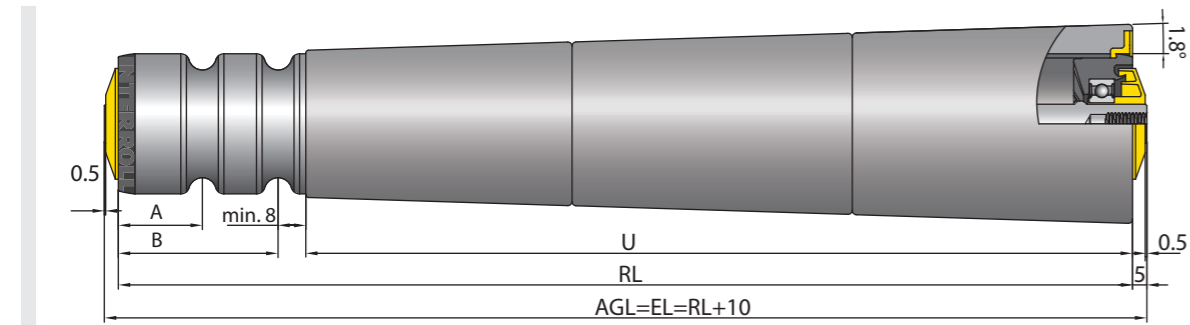


Conicity: 2.2°, color: gray (not antistatic)

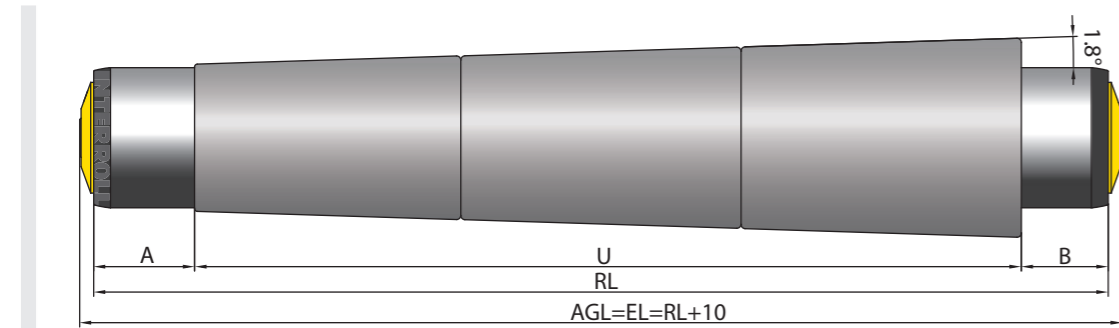
Reference length [mm]	Min. Ø [mm]	Max. Ø [mm]
190	56.0	70.6
240	56.0	74.4
290	56.0	78.3
340	56.0	82.1
440	56.0	89.8
540	56.0	97.5
640	56.0	105.2
740	56.0	112.8

For higher surface of the tube with respect to the tapered elements, it is also possible to obtain different reference lengths. The specified minimum diameters refer to the smallest diameter of the first tapered element. The reference lengths 150 mm and 200 mm as well as 950 mm and 1,000 mm do not receive an end cover.

Tapered elements with 1.8° female threaded shaft and 2 grooves



Tapered elements with 1.8° and tube projection on the right

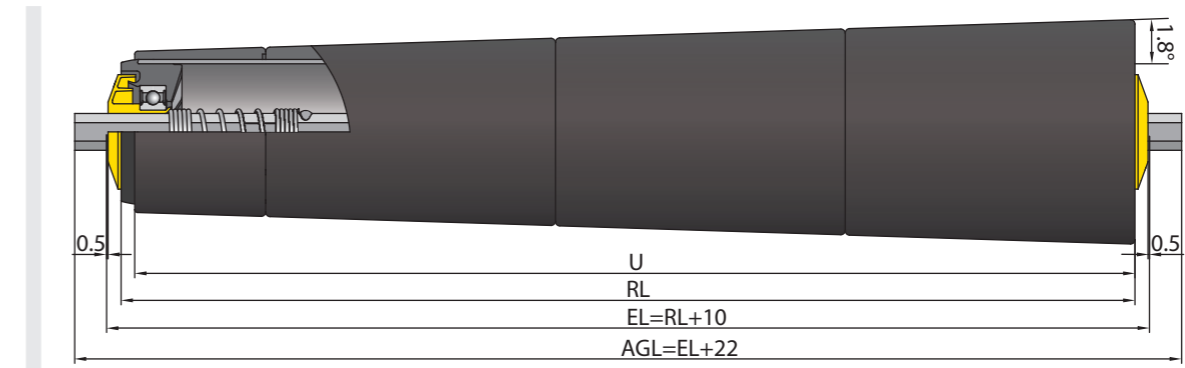


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Tapered elements with 1.8° and spring-loaded shaft



Tapered elements with 2.2°

