ROLLERS
SERIES 1700KXO
Tapered universal conveyor roller

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: • 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: • 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

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

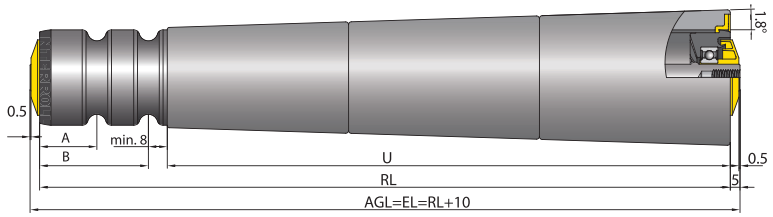
Reference lengths with tapered elements

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	–	–	–

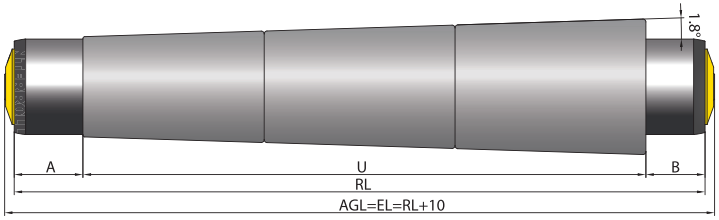
Conicity: 2.2°, color: gray (not antistatic)		
Reference length [mm]	**Min. Ø [mm]**	**Max. Ø [mm]**
190	56.0	70.6
240	56.0	74.4
290	56.0	78.3
340	56.0	82.1
440	56.0	89.8
540	56.0	97.5
640	56.0	105.2
740	56.0	112.8

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.

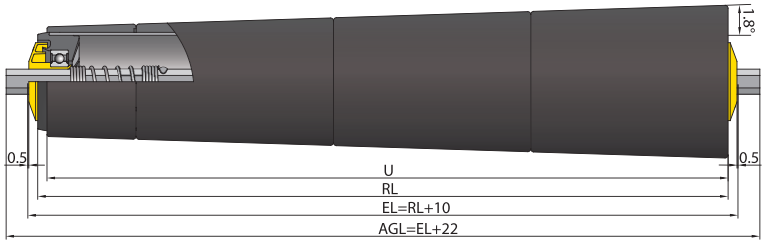
Tapered elements with 1.8° female threaded shaft and 2 grooves



Tapered elements with 1.8° and tube projection on the right



Tapered elements with 1.8° and spring-loaded shaft



Tapered elements with 2.2°