

# ROLLERS

## SERIES 1450

Heavy-duty universal conveyor roller

### Load capacities of series 1450 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 or male thread.

Bearing: 6205 2RZ.

Tube material	Ø Tube / thickness [mm]	Ø Shaft [mm]	Maximum static load [N] for installation length [mm]						
			200	1000	1200	1400	1600	1800	2000
Steel	60 x 3	20	5000	3635	2515	1840	1405	1105	895
	80 x 2	20	5000	5000	4285	3135	2395	1890	1525
	80 x 3	20	5000	5000	5000	4530	3460	2725	2205
	89 x 3	20	5000	5000	5000	5000	4815	3800	3070

### Load capacities of series 1450 with screw-connected installation and freezer design

The load capacity table refers to a temperature range of -28 to +80 °C.  
Valid for the following shaft designs: female thread or male thread.

Bearing: 6204 1Z.

Tube material	Ø Tube / thickness [mm]	Ø Shaft [mm]	Maximum static load [N] for installation length [mm]						
			200	1000	1200	1400	1600	1800	2000
Steel	80 x 2	20	2500	2500	2140	1565	1200	945	760
	80 x 3	20	2500	2500	2500	2265	1730	1360	1100
	89 x 3	20	2500	2500	2500	2500	2400	1900	1535

### Load capacities of series 1450 with loose installation

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

Tube material	Bearings	Ø Tube / thickness [mm]	Ø Shaft [mm]	Maximum static load [N] for installation length [mm]						
				200	1000	1200	1400	1600	1800	2000
Steel	6204 2RZ	60 x 3 standard/seamless	20	5000	3635	2515	1840	1405	1105	895
	6205 2RZ	80 x 2	20	5000	5000	4285	3135	2395	1890	1525
		80 x 3	20	5000	5000	5000	4530	3460	2725	2205
		89 x 3	20	5000	5000	5000	4465	4005	3655	3070

### 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.

Ordering dimensions for tube sleeves, e.g. PVC sleeves, see page 31, and for flanges see page 36.

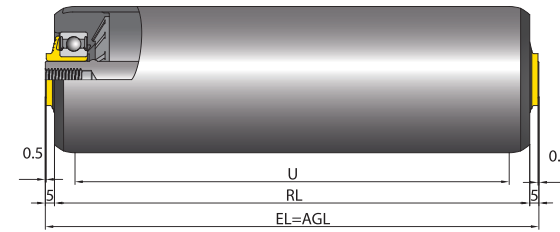
RL = Reference length / ordering length

EL = Installation length, inside diameter between side profiles

AGL = Total length of shaft

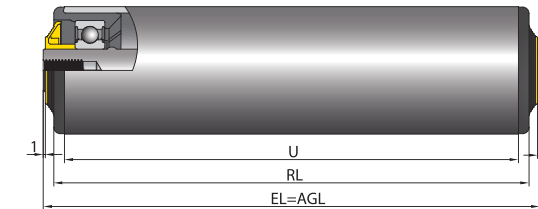
U = Usable tube length: Length without bearing housing and for flanged metal tube without length of flanging

Roller, Ø 80 and Ø 89 mm, with polyamide bearing housing



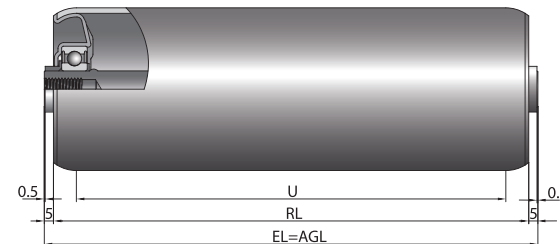
Ø Tube [mm]	Ø Shaft [mm]	EL [mm]	AGL [mm]	U [mm]
80 x 2; 80 x 3; 89 x 3	20	RL + 10	RL + 10	RL - 26

Roller, Ø 60 mm, with polyamide bearing housing



Ø Tube [mm]	Ø Shaft [mm]	EL [mm]	AGL [mm]	U [mm]
60 x 3	20	RL + 10	RL + 10	RL - 10

Roller, Ø 80 and Ø 89 mm, with steel bearing housing



Ø Tube [mm]	Ø Shaft [mm]	EL [mm]	AGL [mm]	U [mm]
80 x 2; 80 x 3; 89 x 3	20	RL + 10	RL + 10	RL - 26

Detailed product specifications are available on request.