Steel conveyor roller







Driven unit handling conveying, such as transport of cardboards, containers, barrels or tires. Suitable for implementing gravity or push conveyors. The roller is designed for use in a very broad temperature range from -28 to +80 °C. The version with steel bearing housing is designed for use in deep freeze applications or applications with very high ambient temperature.

### **High reliability**

The solid steel roller distinguishes itself with distinct longevity and high resilience, thanks to pressed and zinc-plated bearing shells with hardened running grooves.

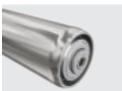
#### Lateral loading

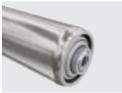
The tube ends are rounded, thereby allowing materials to be easily moved on from the side. Axial forces are removed through ball bearings and seals.

#### **Particularly robust**

The shape of the ball bearings used is optimized for use in conveyor rollers so that large bearing deflections are possible.









Steel conveyor roller

## Technical data

General technical data	
Platform	1200
Max. load capacity	1200 N
Max. conveyor speed	0.8 m/s
Anti-static version (< $10^6 \Omega$ )	Yes
Temperature range	−28 to +80 °C
Material	
Tube	Zinc-plated steel, stainless steel, aluminum
Shaft	Uncoated steel, zinc-plated steel, stainless steel
Bearing housing	Zinc-plated steel
Bearing version	Steel ball bearings with hardened running grooves Oiled to Ø 40 mm, greased from Ø 50 mm

## **Design versions**

Tube sleeves	PVC sleeve (page 22) PU sleeve (page 24) Lagging (page 25)
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 flanges welded on
Noise reduction	For tube with Ø 50 mm











Load capacities of series 1200 with screw-connected installation

The following load capacity table refers to a temperature range from -5 to +40 °C. The values may deviate for applications in other temperature ranges.

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

Bearing: hardened metal ball bearing.

Tube material Ø Tube/ thickness [mm]	Ø Tube/ thickness	Ø Shaft [mm]	Maximum static load [N] for installation length [mm]												
	[mm]		100	200	300	400	500	600	700	800	900	1000	1200	1400	1600
Steel	30 x 1.2	8, 10	300	300	300	300	300	300	300	292	230	186	129	94	72
	40 x 1.5	10, 12	800	800	800	800	800	800	800	800	685	555	385	280	215
	50 x 1.5	10, 12	1200	1200	1200	1200	1200	1200	1200	1200	1200	1110	765	560	430
	60 x 1.5	10, 12, 14	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	985	755
	80 x 2	12, 14	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200

### Load capacities of series 1200 with loose installation

The following load capacity table refers to a temperature range from -5 to +40 °C. The values may deviate for applications in other temperature ranges.

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

Bearing: hardened metal ball bearing.

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	Ø Tube/ thickness [mm]	Ø Shaft [mm]	Maximum static load [N] for installation length [mm]												
			100	200	300	400	500	600	700	800	900	1000	1200	1400	1600
50 51 60	30 x 1.2	8, 10	300	300	300	300	300	300	300	290	230	185	130	95	70
	40 x 1.5	8	800	800	800	735	585	490	420	370	330	300	255	225	200
		10, 12	800	800	800	800	800	800	800	800	685	555	385	280	215
	50 x 1.5	8	1200	1200	975	720	575	475	410	355	320	285	240	210	185
		10	1200	1200	1200	1200	1200	1200	1050	925	830	750	640	560	430
		11 SK, 12	1200	1200	1200	1200	1200	1200	1200	1200	1200	1110	765	560	430
	51 x 2	10	1200	1200	1200	1200	1200	1190	1025	900	805	730	615	535	475
		12	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1055	775	590
	60 x 1.5	10	1200	1200	1200	1200	1200	1175	1010	885	790	715	600	520	460
		12, 14	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	985	755
	80 x 2	14	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200



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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.

Ordering dimensions for tube sleeves, e.g. PVC sleeves, see page 23, and for flanges see page 27.

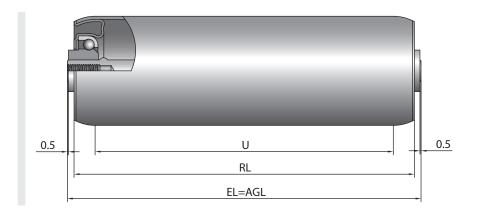
RL = Reference length/ordering length

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

#### Female threaded shaft



Ø Tube	Ø Shaft	EL	AGL	U
[mm]	[mm]	[mm]	[mm]	[mm]
30 x 1.2	8, 10	RL + 6	RL + 6	RL - 8
40 x 1.5	10, 12	RL + 6	RL + 6	RL - 10
50 x 1.5	10, 12	RL + 6	RL + 6	RL - 12
60 x 1.5	10, 12, 14	RL + 6	RL + 6	RL - 21
80 x 2	14	RL + 3	RL + 3	RL - 21

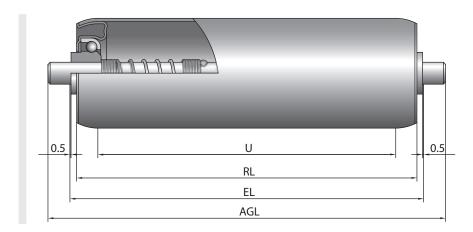


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### Spring-loaded shaft





Ø Tube [mm]	Tube material	Ø Shaft [mm]	EL [mm]	AGL [mm]	U [mm]
30 x 1.2	Steel	8	RL + 6	RL + 22	RL - 8
		10		RL + 26	
40 x 1.5	Steel	8	RL + 6	RL + 22	RL - 10
		10		RL + 26	
		12		RL + 30	
50 x 1.5	Steel	8	RL + 6	RL + 22	RL - 12
		10		RL + 26	
		11 HEX		RL + 28	
		12		RL + 30	
51 x 2	Steel	10	RL + 6	RL + 26	RL - 12
		12		RL + 30	
60 x 1.5	Steel	10	RL + 6	RL + 26	RL - 21
		12		RL + 30	
		14		RL + 34	
80 x 2	Steel	14	RL + 3	RL + 31	RL - 21

HEX = hexagon

Detailed product specifications are available on request.



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