

ROLLERS
SERIES 1100
Gravity conveyor roller

Load capacities of series 1100 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: guided balls, no precision ball bearing.

Tube material	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	1100	1200
Aluminum	20 x 1.5	6	90	90	90	90	85	60	45	35	-	-	-	-
	50 x 1.5	10, 12	350	350	350	350	350	350	350	350	350	310	260	
PVC	20 x 1.5	6	90	20	10	5	-	-	-	-	-	-	-	
	30 x 1.8	8	120	90	35	20	15	-	-	-	-	-	-	
	40 x 2.3	8, 10	180	180	130	70	40	25	20	15	10	-	-	
	50 x 2.8	8, 10, 11 HEX, 12	350	350	275	150	95	70	50	35	30	25	20	15
Steel	20 x 1.5	6	90	90	90	90	90	90	90	75	60	50	45	
	30 x 1.2	8	120	120	120	120	120	120	120	120	120	120	120	
	50 x 1.5	8, 10, 11 HEX, 12	350	350	350	350	350	350	350	350	350	350	350	

HEX = hexagon

Load capacities of series 1100 with loose installation

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

Bearing: guided balls, no precision ball bearing.

Tube material	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	1100	1200
Aluminum	16 x 1	5	50	50	50	50	30	20	15	10	-	-	-	-
	20 x 1.5	6	90	90	90	90	85	60	45	35	-	-	-	-
	50 x 1.5	8	350	350	350	350	350	345	295	260	230	210	190	180
	10	350	350	350	350	350	350	350	350	350	350	350	310	260
PVC	16 x 1	5	35	7	-	-	-	-	-	-	-	-	-	-
	20 x 1.5	6	90	20	10	-	-	-	-	-	-	-	-	-
	30 x 1.8	6, 8	120	90	35	20	15	-	-	-	-	-	-	-
	40 x 2.3	8, 10	180	180	115	65	40	25	20	15	10	-	-	-
Steel	50 x 2.8	8, 10, 11 HEX, 12	350	350	275	150	95	65	50	35	30	25	20	15
	16 x 1	5	50	50	50	50	50	50	45	35	25	20	20	15
	20 x 1.5	6	90	90	90	90	90	90	90	90	75	60	50	45
	30 x 1.2	8	120	120	120	120	120	120	120	120	120	120	120	120
	50 x 1.5	8	350	350	350	350	350	350	330	280	245	220	195	180
	10, 11 HEX, 12	350	350	350	350	350	350	350	350	350	350	350	350	350

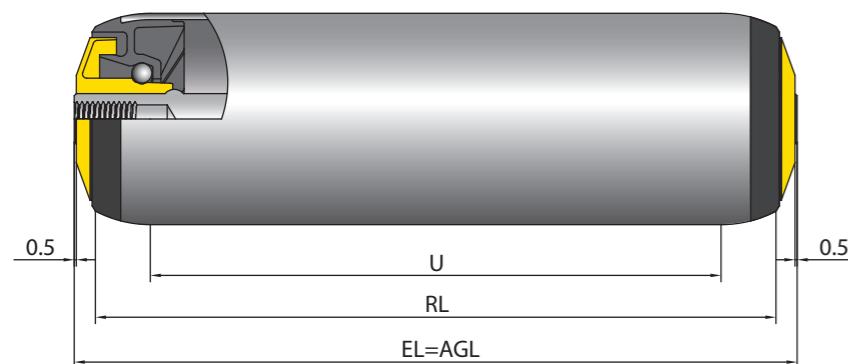
HEX = hexagon

ROLLERS
SERIES 1100
Gravity conveyor roller

Dimensions

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

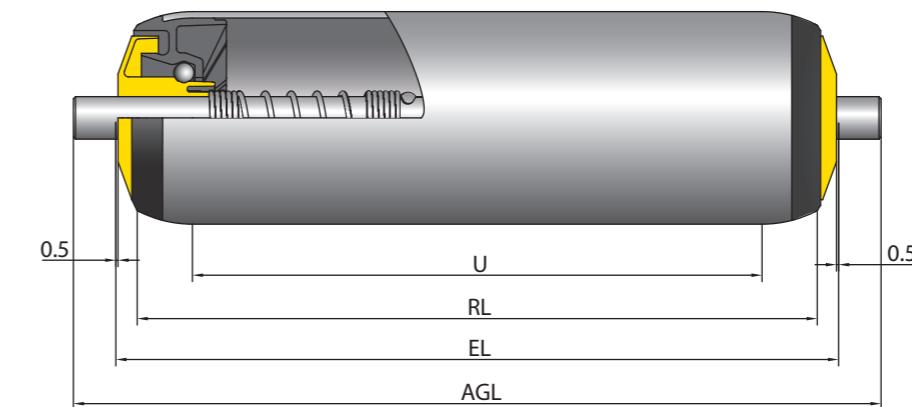
Female threaded shaft



Ø Tube [mm]	Tube material	Ø Shaft [mm]	EL [mm]	AGL [mm]	U [mm]
30 x 1.2	Steel	8	RL + 5	RL + 5	RL - 26
30 x 1.8	PVC	8	RL + 5	RL + 5	RL - 12
40 x 2.3	PVC	8, 10	RL + 10	RL + 10	RL - 12
50 x 1.5	Steel	8, 11 HEX	RL + 10	RL + 10	RL - 26
	Aluminum/Steel	10, 12			
50 x 2.8	PVC	8, 10, 11 HEX, 12	RL + 10	RL + 10	RL - 12

HEX = hexagon

Spring-loaded shaft



Ø Tube [mm]	Tube material	Ø Shaft [mm]	EL [mm]	AGL [mm]	U [mm]
16 x 1	Aluminum/PVC/Steel	5	RL + 5	RL + 17	RL - 16
20 x 1.5	Aluminum/PVC/Steel	6	RL + 5	RL + 17	RL - 16
30 x 1.2	Steel	8	RL + 5	RL + 21	RL - 26
30 x 1.8	PVC	6	RL + 5	RL + 17	RL - 12
		8		RL + 21	
40 x 2.3	PVC	8	RL + 10	RL + 26	RL - 12
		10		RL + 30	
50 x 1.5	Aluminum/Steel	8	RL + 10	RL + 26	RL - 26
		10		RL + 30	
	Steel	11 HEX		RL + 32	
		12		RL + 34	
50 x 2.8	PVC	8	RL + 10	RL + 26	RL - 12
		10		RL + 30	
		11 HEX		RL + 32	
		12		RL + 34	

HEX = hexagon