2.5.5 - Rollers series RTL

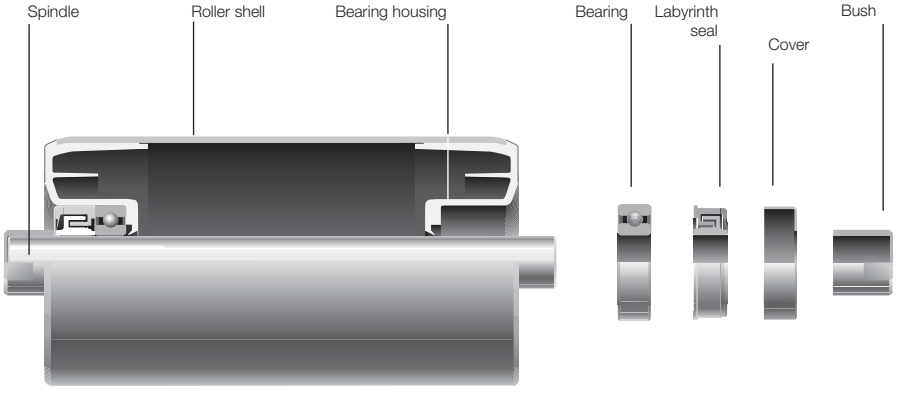
Where used

The roller series RTL has been designed to be used in the movement of small or light loads.

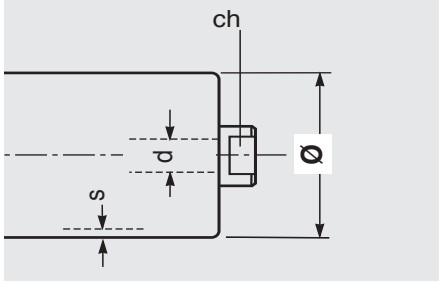
The roller consists of a special steel tube swaged over the bearing housings which are made from technopolymers which have high elastic properties, and resistance to mechanical forces and to corrosion.

The standard design utilises rigid radial precision ball bearings, lubricated for life, a spindle of Ø 15 mm with locking bush with spanner flats ch = 17 mm.

A double radial labyrinth protects the bearing to allow use in medium severe environmental conditions.
In the following tables the diameters in production are indicated with their loads at varying recommended speeds.
The working temperature is definite as between -10° and +70°C



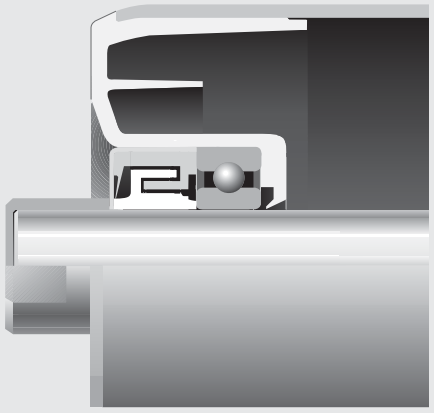
The table indicates the roller diameters in production. On request they may be supplied with different dimensions to the standard and with ch = 14 mm.



Programme of production series RTL

roller type	Ø mm	basic design	s	spindle d	spindle ch	bearing	note
RTL 1	**60**	**N**	2	15	17	6202	with tube and spindle in steel S235JR (EN 10027-1) ex Fe360 (EN 10025) St37 (DIN 17100)
	76	**N**	2				
	89	**N**	2				

series
RTL 1



Section through seal

Ø 60 N

Bearing 6202
(15 x 35 x 11)

d = 15
d_1 = 20
ch = 17 *
s = 2
e = 4
g = 9

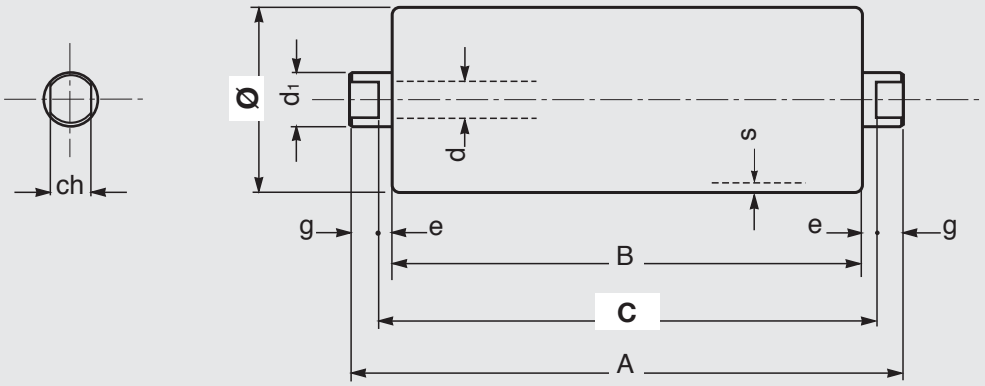
*ch = 14 upon request

belt			roller									
width mm			dimensions mm			weight Kg		load capacity daN					
arrangements			B	**C**	A	rotating parts	**total**	belt speed m/s 0.4	0.6	0.8	1	1.25	1.5
		400	160	**168**	186	0.6	**0.9**	113	99	90	83	77	73
	300	500	200	**208**	226	0.8	**1.1**	113	99	90	83	77	73
	400	650	250	**258**	276	0.9	**1.3**	113	99	90	83	77	73
	500	800	315	**323**	341	1.1	**1.6**	113	99	90	83	77	73
300	650	1000	380	**388**	406	1.3	**1.8**	113	99	90	83	77	73
	800		465	**473**	491	1.5	**2.2**	113	99	90	83	77	73
400			500	**508**	526	1.6	**2.3**	108	99	90	83	77	73
500	1000		600	**608**	626	1.9	**2.8**	89	89	89	83	77	73
650			750	**758**	776	2.3	**3.4**	71	71	71	71	71	71
800			950	**958**	976	2.9	**4.3**	57	57	57	51	51	51
1000			1150	**1158**	1176	3.5	**5.1**	48	48	48	48	48	48

The indicated load capacity relates to a project working of 10,000 hours.

Example of ordering
standard design
RTL1,15B,60N,258

for special designs
see pages 80-81



Ø 76 N

Bearing 6202
(15 x 35 x 11)

d = 15
d_1 = 20
ch = 17 *
s = 2
e = 4
g = 9

*ch = 14 upon request

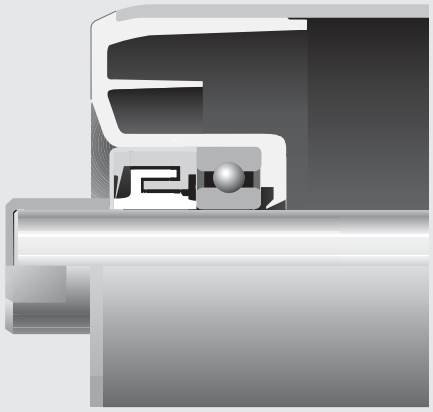
belt			roller										
width mm			dimensions mm			weight Kg		load capacity daN					
arrangements			B	**C**	A	rotating parts	**total**	belt speed m/s 0.5	0.75	1	1.25	1.5	1.75
		400	160	**168**	186	0.8	**1.1**	114	99	90	84	79	75
	300	500	200	**208**	226	1.0	**1.3**	114	99	90	84	79	75
	400	650	250	**258**	276	1.1	**1.5**	114	99	90	84	79	75
	500	800	315	**323**	341	1.4	**1.8**	114	99	90	84	79	75
300	650	1000	380	**388**	406	1.6	**2.2**	114	99	90	84	79	75
	800		465	**473**	491	1.9	**2.6**	113	99	90	84	79	75
400			500	**508**	526	2.1	**2.8**	105	99	90	84	79	75
500	1000		600	**608**	626	2.4	**3.3**	86	86	86	86	86	86
650			750	**758**	776	3.0	**4.0**	69	69	69	69	69	69
800			950	**958**	976	3.7	**5.0**	54	54	54	54	54	54
1000			1150	**1158**	1176	4.4	**6.1**	45	45	45	45	45	45

The indicated load capacity relates to a project working of 10,000 hours.

Example of ordering
standard design
RTL1,15B,76N,323

for special designs
see pages 80-81

series
RTL 1



Section through seal

Ø 89 N

Bearing 6202
(15 x 35 x 11)

d = 15
d_1 = 20
ch = 17 *
s = 2
e = 4
g = 9

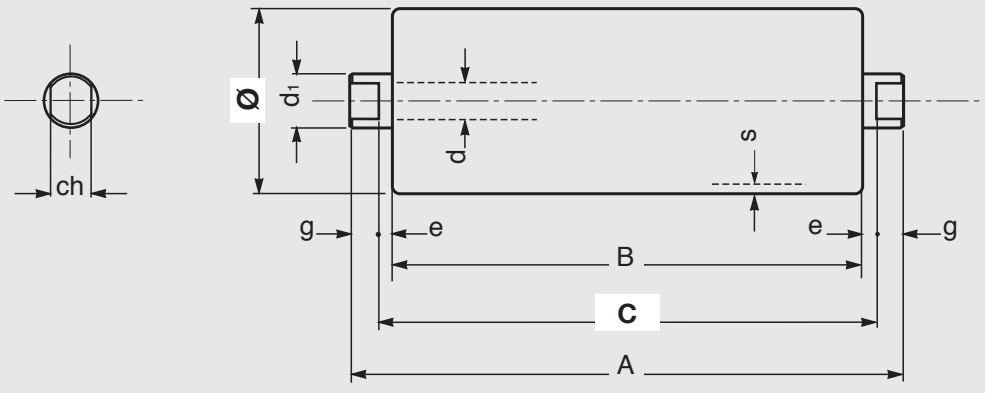
*ch = 14 upon request

belt			roller									
width mm			dimensions mm			weight Kg		load capacity daN				
arrangements			B	C	A	rotating parts	total	belt speed m/s 0.75	1	1.25	1.5	1.75	2
		400	160	168	186	1.1	1.4	105	95	88	83	79	75
	300	500	200	208	226	1.3	1.6	105	95	88	83	79	75
	400	650	250	258	276	1.5	1.9	105	95	88	83	79	75
	500	800	315	323	341	1.8	2.3	105	95	88	83	79	75
300	650	1000	380	388	406	2.1	2.6	105	95	88	83	79	75
	800		465	473	491	2.4	3.1	105	95	88	83	79	75
400			500	508	526	2.6	3.3	104	95	88	83	79	75
500	1000		600	608	626	3.0	3.9	85	85	85	83	79	75
650			750	758	776	3.7	4.7	68	68	68	68	68	68
800			950	958	976	4.5	5.9	53	53	53	53	53	53
1000			1150	1158	1176	5.4	7.0	44	44	44	44	44	44

The indicated load capacity relates to a project working of 10,000 hours.

Example of ordering
standard design
RTL1,15B,89N,758

for special designs
see pages 80-81


ch
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