transroll

CATALOGUE

ROLLERS AND GARLAND STATIONS FOR BELT CONVEYORS

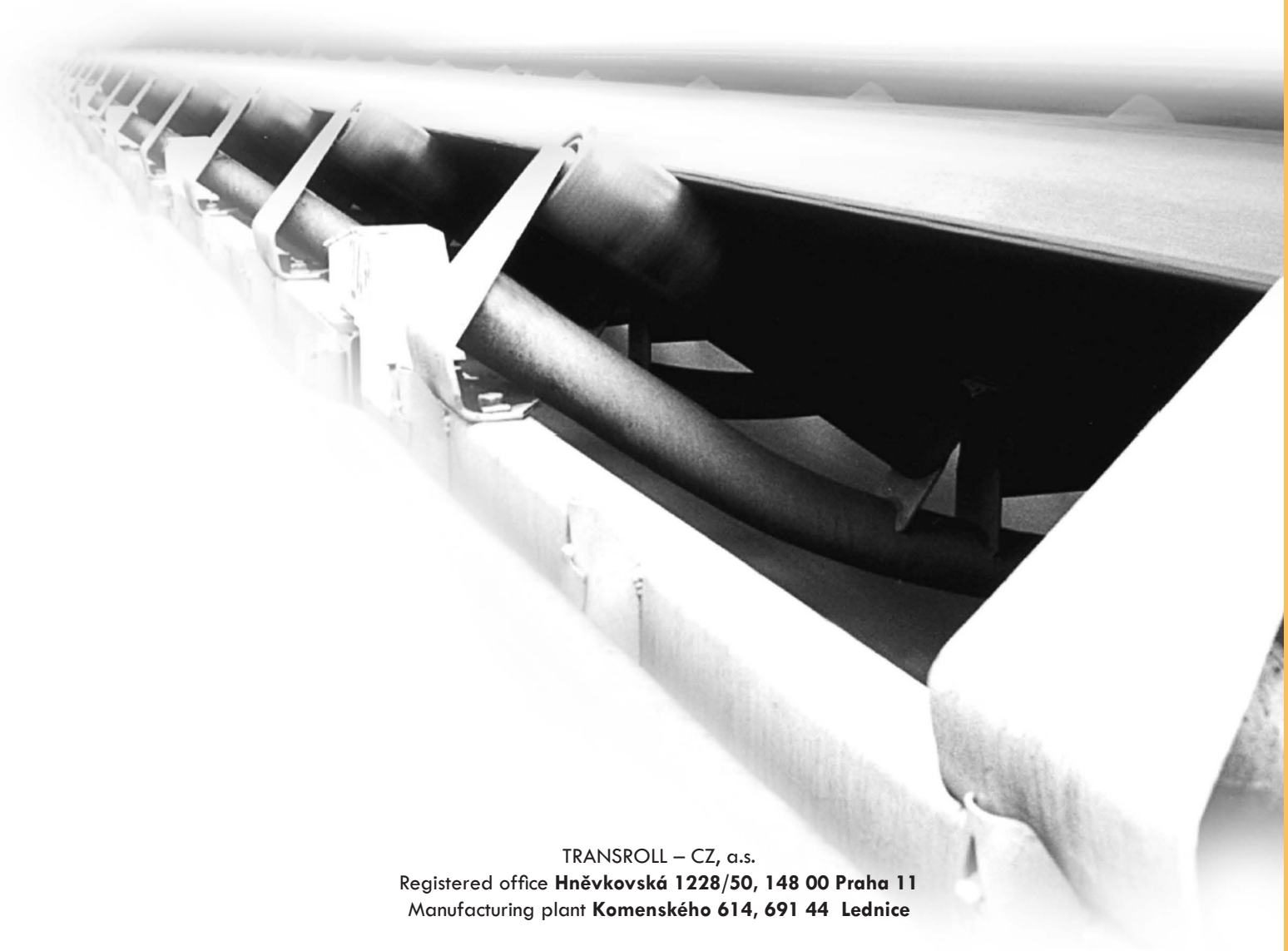

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TABLE OF CONTENTS

INTRODUCTION

Products listed in this catalogue are intended for following purposes:

- spare parts for belt conveyors already in operation
- assembly components for manufactures of complete belt conveyors

How to use this catalogue

When specifying your particular needs it is necessary to notice:

- transport belt width
- supporting structure width (type of hanging for garland stations)
- conveyor supporting structure
- working conditions (climate, dust/ powder, wetness, …)

Surface finish and ordering examples are mentioned on each catalogue sheet.

Besides our range of standard rollers we also manufacture rollers with other lengths and diameters according to your particular requirement and assignment.

Special-design roller finish

If you don't find your required roller in our catalogue please contact our sales department. We will prepare an offer for special-design solution (see Demand sheet in this catalogue or www.transroll.cz).

ROLLERS

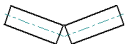
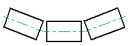
TECHNICAL SPECIFICATIONS - ROLLERS

THE TECHNICAL SPECIFICATION BELOW IS VALID FOR

- standard rollers used for fixed stations – top and bottom limbs of the middle conveyor section
- rollers in the conveyor belt hopper for transport belt width up to 2.000 mm.

ROLLER TYPES

- Flat rollers for:
  - top belt limb
  - bottom belt limb up to B=1400
- Circular disc rollers or rubber lagged rollers for belt supporting on the hopper (damping function)
- Disc rollers for bottom belt limb (self-cleaning function) for B 400–2000 mm

Belt width B	Supporting structure width	Roller diameter			Bearing	Roller length for station type			Max. Belt speed m/s
		Flat	Disc	Rubber lagged					
400	700	63, 76, 89	108/63	108/76	6204	500	250	160	3,15
500	800	63, 76, 89	108/63	108/76	6204	600	315	200	3,15
650	950	63, 76, 89	108/63	108/76	6204	750	380	250	3,15
800	1150	89, 108	108/63	108/76	6204	950		315	3,15
1000	1350	108, 133	133/89	133/89	6204	1150	600	380	3,15
1200	1600	133	133/89	133/89	6204	1400	670	465	3,15
		133	159/89			1400	670	465	4
		133	159/89		6306	1400	670	465	5
1400	1800	133	133/89	–	6204	1600	750	530	3,15
		133	159/89		6305	1600	750	530	4
		133	159/89		6306	1600	750	530	5
1600	2050	159	194/108	–	6308	–	900	600	5
1800	2250	159	194/108	–	6308	–	1000	670	5
2000	2600	194	245/133	–	6310	–	1150	750	5

Roller lengths in double roller stations up to B 650 are applied for top stations, from B 800 only to bottom stations.

OPERATING CONDITIONS

- Transported material
  Non-sorted bulk materials with max. grain size according to ČSN 26 3102 and bulk density up to 2,1 t/m^3. Informative grain size values (lump content up to 5 % max.)

	400	500	650	800	1000	1200	1400	1600	1800	2000
Max. grain size [mm]	100	150	250	300	400	500	600	675	750	800

- Belt speed
  - max. 3,15 m/s for belt width B 400 – 1400 and rollers with bearing 6204
  - max. 4 m/s for belt width B 1200 – 1400 and rollers with bearings 6305
  - max. 5 m/s for belt width B 1200 – 2000 and rollers with bearings 6306 – 6312
  - for speed over 5 m/s please contact our sales department to offer optimum solution.
- Working conditions
  Moderate climate WT in combination with chemical and mechanical contamination E41 (working temperature -20°C to +35°C) ČSN EN 60721-3-4 (ČSN 038009)

- Storage
  Rollers must be stored in covered dry place on wooden pallets placed on solid floor. Storage temperature range is from -25 °C to +35 °C. Storage for longer than 1 year is not recommended.
- Installation and maintenance
  Mounting of rollers in garlands and idlers and the installation of garlands and idlers on the conveyor frame can be only carried out by instructed workers and designated organisations. Installed rollers should be rotated by hand to check that they have been installed correctly. During operation it is necessary to check that rollers are working correctly. Rollers that are not working properly (e.g. incorrect rotation, whistling, overheating, increased axial and radial clearance, shell or rubber wear, deformed) must be replaced.

TECHNICAL PARAMETERS

- Main dimensions
  Standard rollers are in accordance with ČSN 26 1102 and ČSN ISO 1537. Specific data to sizes øD, L, ød, s, L1, L2 are provided in Transroll catalogue sheets according to roller type (page 11–54).
- Rotating mass values
  The values are mentioned in the relevant catalogue sheets.
- Roller loading
  Permissible roller loading follows from operating conditions mentioned above, that is belt width, bulk density, grain size of transported material and idler spacing.
  Middle roller loading in kg for belt conveyors during full belt load, bulk density of 2,1 t/m^3 and stations spacing of 1 m:

B [mm]	400	500	650	800	1000	1200	1400	1600	1800	2000
Load [kg]	17,5	28	50	91	134	200	274	368	470	589

- Service life
  The average service life of the roller (bearing durability) is 30.000 operating hours within 5 years of the manufacturing date. This service life is also valid if all operational conditions are met and the rollers are installed within 6 months of the production date. The service life doesn't apply to rubber or polyurethane discs, circular discs and lagging or to the conveying of extremely abrasive bulk materials, e. g. fly-ash, slag.
- Rubber hardness in circular disc, disc and rubber lagged rollers is 65°Sh.
  Polyurethane hardness on demand.

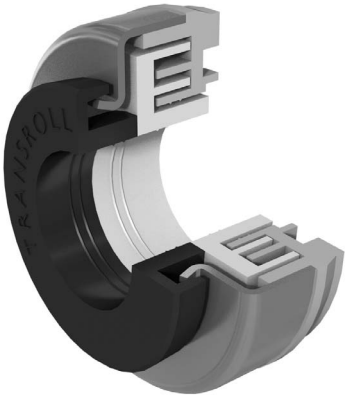
COMMERCIAL SPECIFICATIONS

- Order should include: name, marking, quantity, special requirements.
- Packaging
  Rollers are supplied on wooden pallets 800 x 1200 mm as standard.
  Different types of packaging must be agreed in advance with the sales department and must be specified in the order.
  Each pallet is marked with a label, stating the name and size, order number, marking and quantity.
- Acceptance and testing
  Unless agreed in advance, acceptance and testing is not performed. If acceptance and quality inspection are required please state this before ordering.
- Guarantee period
  If all the requirements of these specifications are met, the producer provides a 24 months guarantee from the date of rollers' installation, however no longer than 30 months from the delivery date.

STANDARD SOLUTIONS OF LABYRINTH SYSTEM

The system comprises of several sealing elements which prevent contaminants from entering the bearing. Individual elements of the system are circular in shape with interlaid lips which form a labyrinth. The shape of the lips is designed to prevent the intrusion of contaminants into bearing chamber without increasing rotational frictional resistance.

1. For bearing types: 6204, 6205, 6206

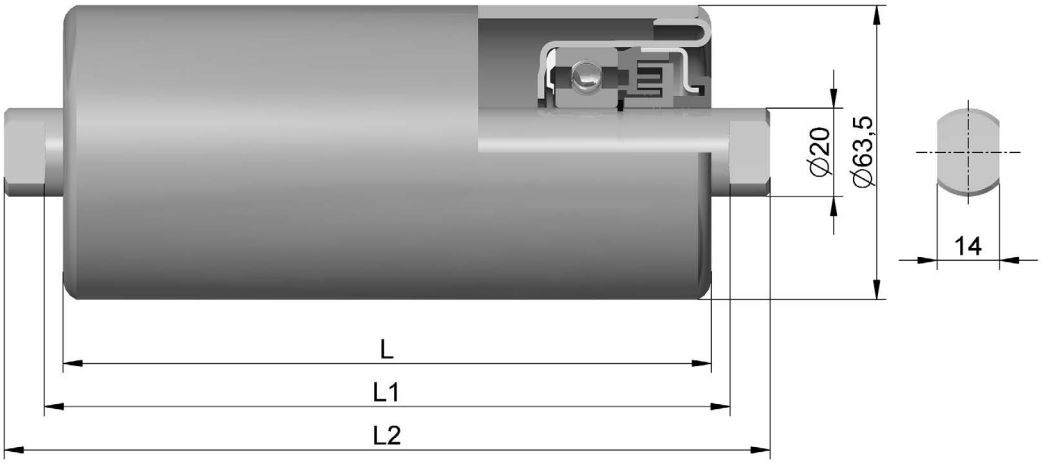


2. For bearing types: 6308, 6305, 6306

3. For bearing types: 6310, 6312

For further information or special technical requirements, please contact our Sales dept.

Flat rollers



- steel pipe shell with the wall thickness 3 mm
- faces of drawn steel sheet welded in the shell
- ball bearings 6204 C3

For garland type and belt width			Name – size: Flat roller 63×L/6204	Drawing no.	Dimensions [mm]		Weight [kg]	
					L1	L2	Rot. parts	Total
		400	63×160 / 6204	3-20024-00136	168	186	1,0	1,6
		500	63×200 / 6204	3-20024-00026	208	226	1,2	1,9
	400	650	63×250 / 6204	3-20024-00049	258	276	1,4	2,2
	500		63×315 / 6204	3-20024-00029	323	341	1,7	2,7
	650		63×380 / 6204	3-20024-00030	388	406	2,0	3,1
400			63×500 / 6204	3-20024-00045	508	546	2,5	4,0
500			63×600 / 6204	3-20024-00054	608	646	2,9	4,7
650			63×750 / 6204	3-20024-00060	758	796	3,6	5,7
800			63×950 / 6204	3-20024-00047	958	996	4,5	7,1

Other lengths, shafts and coatings are available on request.

Surface finish – possible solutions

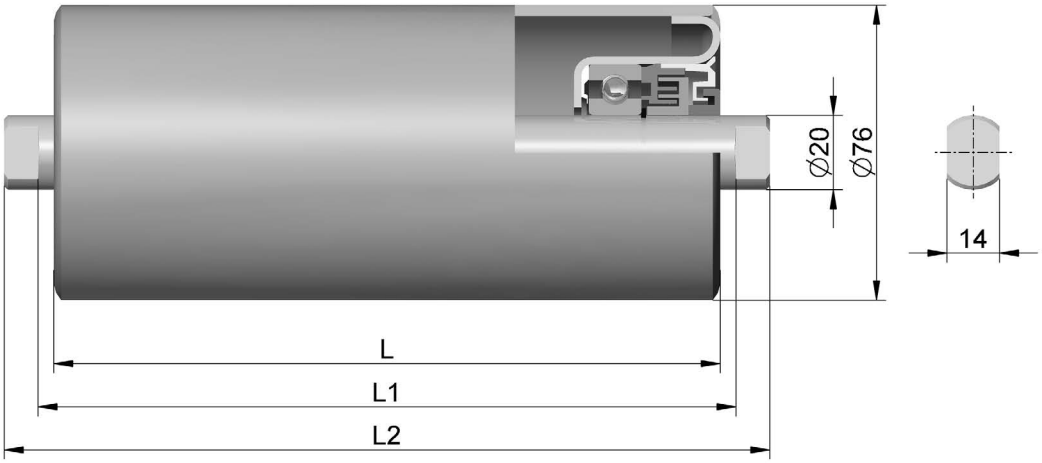
1) without coating
2) synthetic basic coating
3) polyester powder coating

Ordering example

Name, size, drawing number, quantity (pcs)
FLAT ROLLER 63×200 / 6204, 3-20024-00026, 200 pieces

Manufacturer reserves the right to make changes without notice.

FLAT ROLLER
ø76 × L / 6204



- steel pipe shell with the wall thickness 3 mm
- faces of drawn steel sheet welded in the shell
- ball bearings 6204 C3

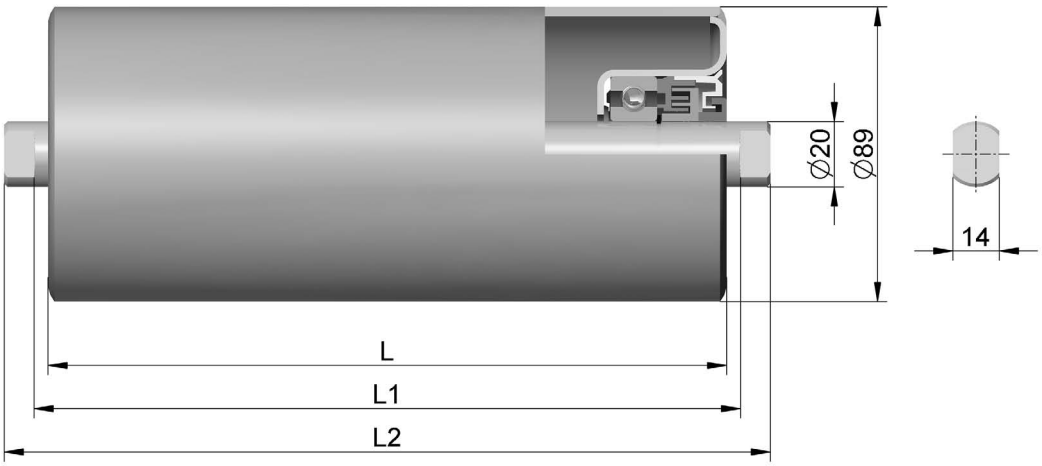
For garland type and belt width			Name – size: Flat roller 76×L/6204	Drawing no.	Dimensions [mm]		Weight [kg]	
					L1	L2	Rot. parts	Total
		400	76×160 / 6204	3-20034-00163	168	186	1,2	1,8
		500	76×200 / 6204	3-20034-00164	208	226	1,5	2,2
	400	650	76×250 / 6204	3-20034-00165	258	276	1,7	2,5
	500		76×315 / 6204	3-20034-00142	323	341	2,1	3,1
	650		76×380 / 6204	3-20034-00143	388	406	2,4	3,6
			76×465 / 6204	3-20034-00307	473	491	2,9	4,2
400			76×500 / 6204	3-20034-00167	508	546	3,1	4,5
500			76×600 / 6204	3-20034-00144	608	646	3,6	5,3
650			76×750 / 6204	3-20034-00145	758	796	4,4	6,5
800			76×950 / 6204	3-20034-00162	958	996	5,5	8,1
1000			79×1150 / 6204	3-20034-00261	1158	1196	6,6	9,6

Other lengths, shafts and coatings are available on request.

Surface finish
polyester powder coating

Ordering example
Name, size, drawing number, quantity (pcs)
Flat roller 76×200 / 6204, 3-20034-00164, 200 pieces

Manufacturer reserves the right to make changes without notice.



- steel pipe shell with the wall thickness 3 mm
- faces of drawn steel sheet welded in the shell
- ball bearings 6204 C3

For garland type and belt width			Name – size: Flat roller 89×L/6204	Drawing no.	Dimensions [mm]		Weight [kg]	
					L1	L2	Rot. parts	Total
		400	89×160 / 6204	3-20044-00477	168	186	1,4	2,0
		500	89×200 / 6204	3-20044-00227	208	226	1,7	2,4
	400	650	89×250 / 6204	3-20044-00259	258	276	2,0	2,8
		800	89×300 / 6204	3-20044-00255	308	326	2,3	3,2
	500	800	89×315 / 6204	3-20044-00257	323	341	2,4	3,4
	650		89×380 / 6204	3-20044-00262	388	406	2,8	3,9
	800		89×465 / 6204	3-20044-00264	473	491	3,3	4,7
400			89×500 / 6204	3-20044-00478	508	546	3,6	5,0
500			89×600 / 6204	3-20044-00246	608	646	4,2	5,9
	1200		89×670 / 6204	3-20044-00290	678	716	4,6	6,5
650			89×750 / 6204	3-20044-00275	758	796	5,1	7,2
*800			89×900 / 6204	3-20044-00226	908	946	6,1	8,6
800			89×950 / 6204	3-20044-00281	958	996	6,4	9,0
1000			89×1150 / 6204	3-20044-00266	1158	1196	7,7	10,8

Other lengths, shafts and coatings are available on request.

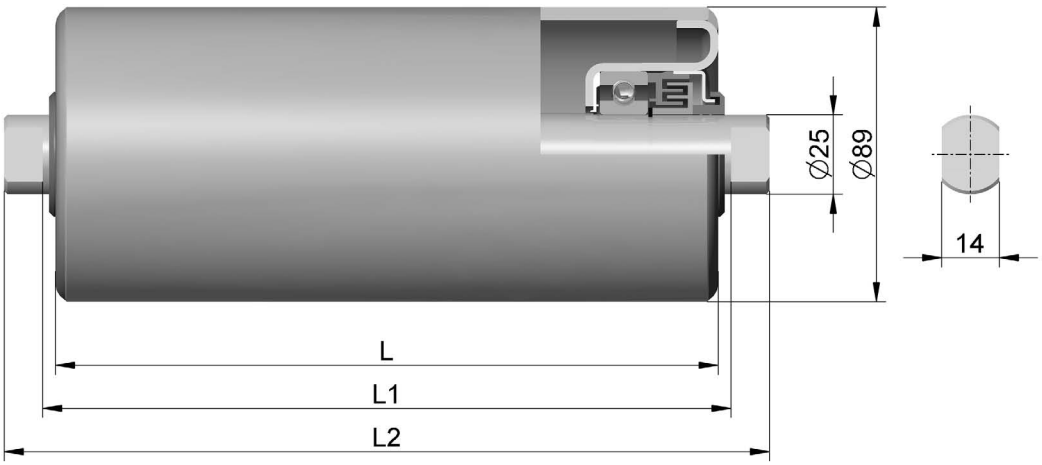
Surface finish

polyester powder coating

Ordering example

Name, size, drawing number, quantity (pcs)
Flat roller 89×200 / 6204, 3-20044-00227, 200 pieces

Manufacturer reserves the right to make changes without notice.



- steel pipe shell with the wall thickness 4 mm
- faces of drawn steel sheet welded in the shell
- ball bearings 6205 C3

For garland type and belt width			Name – size: Flat roller 89×L/6205	Drawing no.	Dimensions [mm]		Weight [kg]	
					L1	L2	Rot. parts	Total
		650	89×250 / 6205	3-20044-01590	258	276	2,6	3,9
		800	89×315 / 6205	3-20044-01565	323	341	3,1	4,7
		1000	89×380 / 6205	3-20044-01566	388	406	3,7	5,5
		1200	89×465 / 6205	3-20044-01418	473	491	4,4	6,6
		1400	89×530 / 6205	3-20044-01564	538	556	4,9	7,4
800			89×950 / 6205	3-20044-01567	958	996	8,5	12,7
1000			89×1150 / 6205	3-20044-01568	1158	1196	10,1	15,2
1200			89×1400 / 6205	3-20044-01569	1408	1446	12,2	18,4
1400			89×1600 / 6205	3-20044-01419	1608	1646	13,9	20,9

Other lengths, shafts and coatings are available on request.

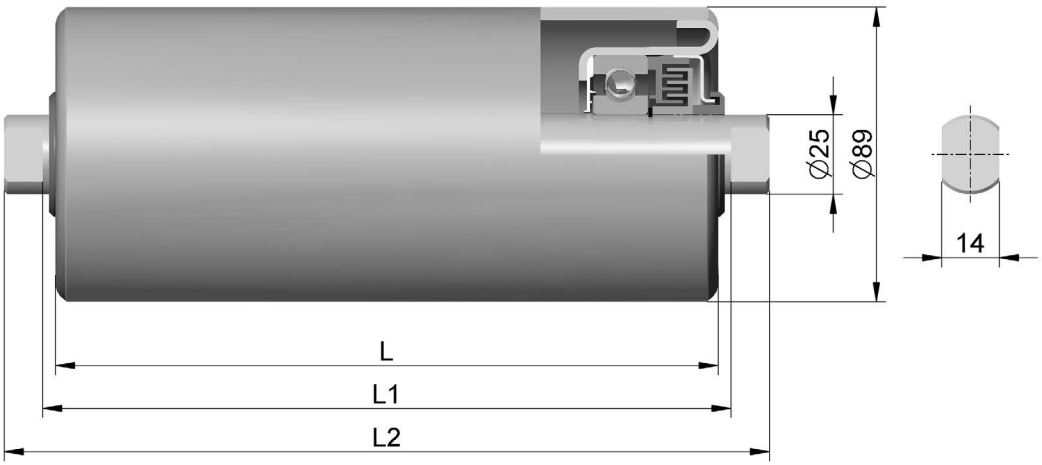
Surface finish – possible solutions

1) without coating
2) synthetic basic coating
3) polyester powder coating

Ordering example

Name, size, drawing number, quantity (pcs)
Flat roller 89×250 / 6205, 3-20044-01590, 200 pieces

Manufacturer reserves the right to make changes without notice.



- steel pipe shell with the wall thickness 4 mm
- faces of drawn steel sheet welded in the shell
- ball bearings 6305 C3

For garland type and belt width			Name – size: Flat roller 89×L/6205	Drawing no.	Dimensions [mm]		Weight [kg]	
					L1	L2	Rot. parts	Total
		800	89×315 / 6305	3-21174-06165	323	341	3,3	5,0
		1000	89×380 / 6305	3-21174-06170	388	406	3,9	5,8
		1200	89×465 / 6305	3-21174-06121	473	491	4,6	6,9
		1400	89×530 / 6305	3-21174-06158	538	556	5,1	7,7
800			89×950 / 6305	3-21174-06125	958	996	8,6	13,0
1000			89×1150 / 6305	3-21174-06126	1158	1196	10,3	15,5
1200			89×1400 / 6305	3-21174-06128	1408	1446	12,4	18,7
1400			89×1600 / 6305	3-21174-06130	1608	1646	14,1	21,2

Other lengths, shafts and coatings are available on request.

Surface finish – possible solutions

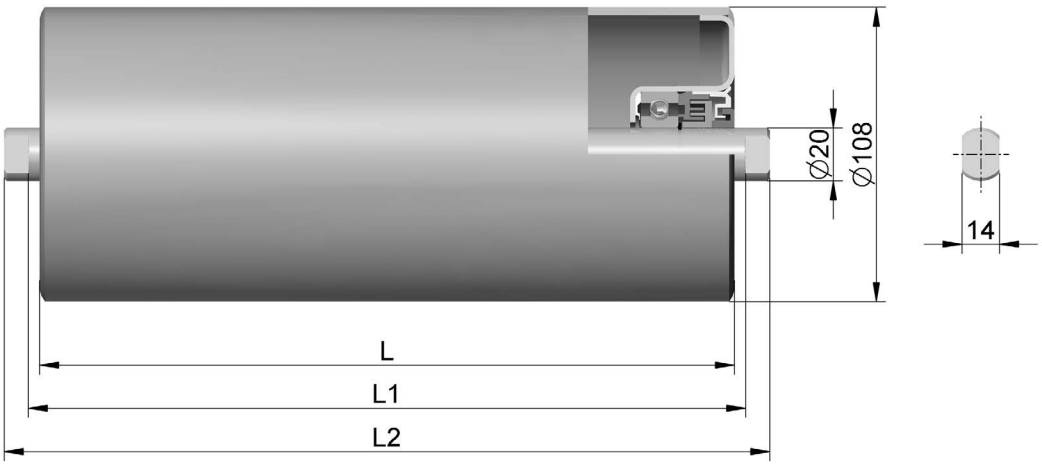
1) without coating
2) synthetic basic coating
3) polyester powder coating

Ordering example

Name, size, drawing number, quantity (pcs)
Flat roller 89×380 / 6305, 3-21174-06170, 200 pieces

Manufacturer reserves the right to make changes without notice.

FLAT ROLLER
ø108 × L / 6204



- steel pipe shell with the wall thickness 3 mm
- faces of drawn steel sheet welded in the shell
- ball bearings 6204 C3

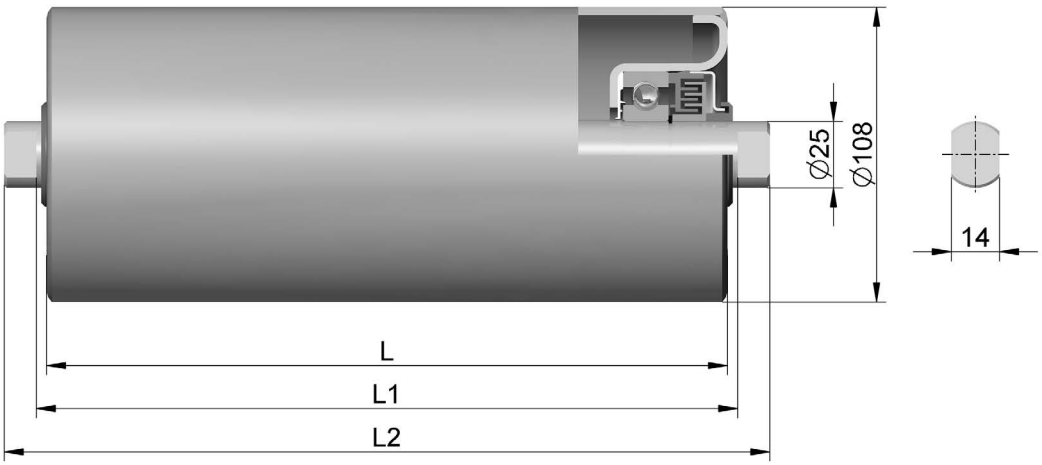
For garland type and belt width			Name – size: Flat roller 108×L/6204	Drawing no.	Dimensions [mm]		Weight [kg]	
					L1	L2	Rot. parts	Total
		400	108×160 / 6204	3-20054-00535	168	186	1,7	2,3
		500	108×200 / 6204	3-20054-00122	208	226	2,0	2,7
		650	108×250 / 6204	3-20054-00123	258	276	2,4	3,2
		800	108×315 / 6204	3-20054-00125	323	341	2,9	3,9
		1000	108×380 / 6204	3-20054-00127	388	406	3,4	4,6
		1200	108×465 / 6204	3-20054-00129	473	491	4,1	5,4
400			108×500 / 6204	3-20054-00853	508	546	4,3	5,8
500			108×600 / 6204	3-20054-00544	608	646	5,1	6,8
650			108×750 / 6204	3-20054-00380	758	796	6,3	8,4
800			108×950 / 6204	3-20054-00555	958	996	7,8	10,4
1000			108×1150 / 6204	3-20054-00146	1158	1196	9,4	12,5
1200			108×1400 / 6204	3-20054-00149	1408	1446	11,3	15,0

Other lengths, shafts and coatings are available on request.

Surface finish
polyester powder coating

Ordering example
Name, size, drawing number, quantity (pcs)
Flat roller 108×200 / 6204, 3-20054-00122, 200 pieces

Manufacturer reserves the right to make changes without notice.



- steel pipe shell with the wall thickness 3 mm
- faces of drawn steel sheet welded in the shell
- ball bearings 6305 C3

For garland type and belt width			Name – size: Flat roller 108×L/6305	Drawing no.	Dimensions [mm]		Weight [kg]	
					L1	L2	Rot. parts	Total
		500	108×200 / 6305	3-20054-00302	208	226	2,5	3,7
		650	108×250 / 6305	3-20054-00304	258	276	2,8	4,3
		800	108×315 / 6305	3-20054-00306	323	341	3,3	5,0
		1000	108×380 / 6305	3-20054-01181	388	406	3,8	5,8
		1200	108×465 / 6305	3-20054-01187	473	491	4,5	6,8
		1400	108×530 / 6305	3-20054-01190	538	556	5,0	7,6
500			108×600 / 6305	3-20054-00300	608	646	5,6	8,5
650			108×750 / 6305	3-20054-01191	758	796	6,7	10,3
800			108×950 / 6305	3-20054-01192	958	996	8,3	12,7
1000			108×1150 / 6305	3-20054-00297	1158	1196	9,8	15,0
1200			108×1400 / 6305	3-20054-01193	1408	1446	11,8	18,0
1400			108×1600 / 6305	3-20054-01194	1608	1646	13,3	20,4

Other lengths, shafts and coatings are available on request.

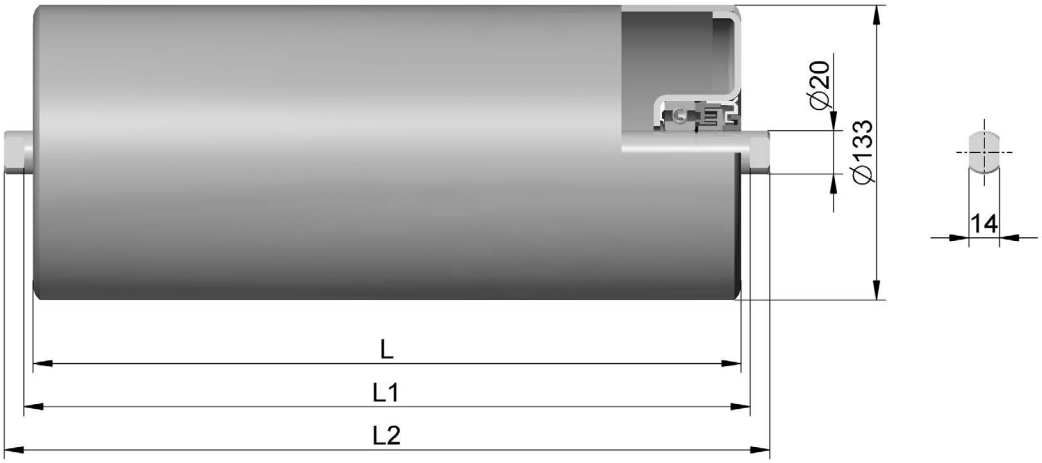
Surface finish – possible solutions

1) without coating
2) synthetic basic coating
3) polyester powder coating

Ordering example

Name, size, drawing number, quantity (pcs)
Flat roller 108×380 / 6305, 3-20054-01181, 200 pieces

Manufacturer reserves the right to make changes without notice.



- steel pipe shell with the wall thickness 3 mm
- faces of drawn steel sheet welded in the shell
- ball bearings 6204 C3

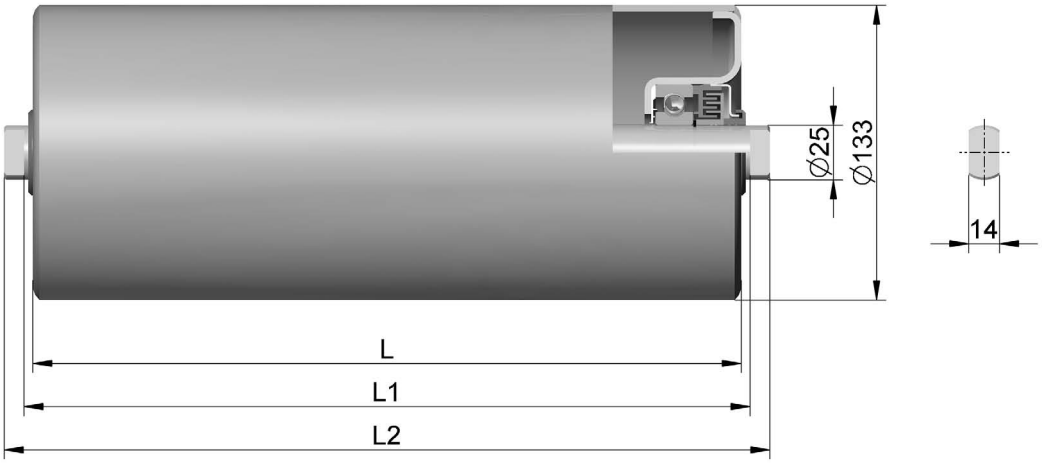
For garland type and belt width			Name – size: Flat roller 133×L/6204	Drawing no.	Dimensions [mm]		Weight [kg]	
					L1	L2	Rot. parts	Total
		800	133x315/6204	3-20064-00110	323	341	3,9	4,9
		1000	133x380/6204	3-20064-00116	388	406	4,6	5,7
		1200	133x465/6204	3-20064-00120	473	491	5,4	6,7
		1400	133x530/6204	3-20064-00124	538	556	6,0	7,5
	1000		133x600/6204	3-20064-00127	608	626	6,7	8,3
	1200		133x670/6204	3-20064-00130	678	696	7,3	9,2
	1400		133x750/6204	3-20064-00134	758	776	8,1	10,2
800			133x950/6204	3-20064-00139	958	996	10,0	12,6
1000			133x1150/6204	3-20064-00145	1158	1196	11,9	15,0
1200			133x1400/6204	3-20064-00148	1408	1446	14,3	18,0
1400			133x1600/6204	3-20064-00150	1608	1646	16,3	20,4
1600			133x1800/6204	3-20064-00754	1808	1846	18,2	22,9

Other lengths, shafts and coatings are available on request.

Surface finish
polyester powder coating

Ordering example
Name, size, drawing number, quantity (pcs)
Flat roller 133×380 / 6204, 3-20064-00116, 200 pieces

Manufacturer reserves the right to make changes without notice.



- steel pipe shell with the wall thickness 3 mm
- faces of drawn steel sheet welded in the shell
- ball bearings 6305 C3

For garland type and belt width			Name – size: Flat roller 133×L/6305	Drawing no.	Dimensions [mm]		Weight [kg]	
					L1	L2	Rot. parts	Total
		800	133×315 / 6305	3-20064-00202	323	341	4,2	5,9
		1000	133×380 / 6305	3-20064-00204	388	406	4,8	6,8
		1200	133×465 / 6305	3-20064-00203	473	491	5,6	8,0
		1400	133×530 / 6305	3-20064-00206	538	556	6,3	8,9
650			133×750 / 6305	3-20064-00209	758	776	8,4	11,9
800			133×950 / 6305	3-20064-00217	958	996	10,3	14,7
1000			133×1150 / 6305	3-20064-00232	1158	1196	12,2	17,4
1200			133×1400 / 6305	3-20064-00233	1408	1446	14,6	20,9
1400			133×1600 / 6305	3-20064-00236	1608	1646	16,5	23,6

Other lengths, shafts and coatings are available on request.

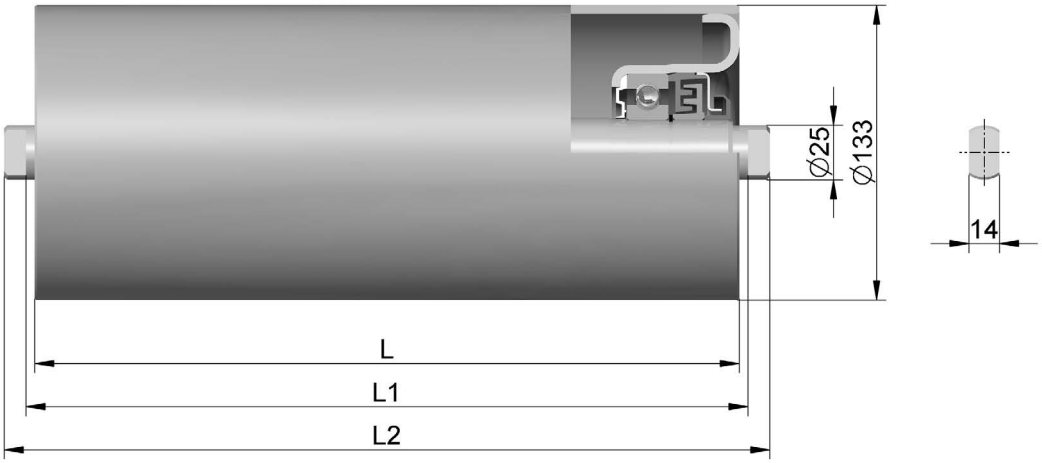
Surface finish

polyester powder coating

Ordering example

Name, size, drawing number, quantity (pcs)
Flat roller 133×380 / 6305, 3-20064-00204, 200 pieces

Manufacturer reserves the right to make changes without notice.



- steel pipe shell with the wall thickness 4 mm
- faces of drawn steel sheet welded in the shell
- ball bearings 6306 C3

For garland type and belt width			Name – size: Flat roller 133×L/6306	Drawing no.	Dimensions [mm]		Weight [kg]	
					L1	L2	Rot. parts	Total
		800	133×315 / 6306	3-21064-00110	323	343	5,5	8,0
		1000	133×380 / 6306	3-21064-00116	388	408	6,3	9,2
		1200	133×465 / 6306	3-21064-00120	473	493	7,4	10,8
		1400	133×530 / 6306	3-21064-00124	538	558	8,2	12,1
	1000		133×600 / 6306	3-21064-00127	608	628	9,1	13,4
	1200		133×670 / 6306	3-21064-00130	678	698	10,0	14,7
	1400		133×750 / 6306	3-21064-00134	758	778	11,0	16,2
			133×900 / 6306	3-21064-00138	908	948	12,9	19,1
800			133×950 / 6306	3-21064-00139	958	998	13,6	20,1
1000			133×1150 / 6306	3-21064-00145	1158	1198	16,1	23,9
1200			133×1400 / 6306	3-21064-00148	1408	1448	19,3	28,6
1400			133×1600 / 6306	3-21064-00150	1608	1648	21,8	32,4

Two-roller disposition is designed for bottom stations.
Other lengths, shafts and coatings are available on request.

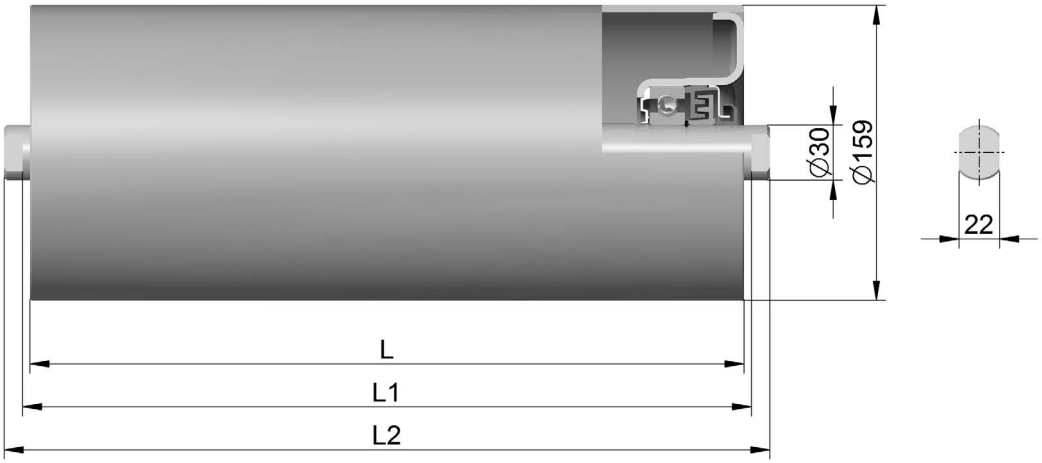
Surface finish – possible solutions

1) without coating
2) synthetic basic coating
3) polyester powder coating

Ordering example

Name, size, drawing number, quantity (pcs)
Flat roller 133×380 / 6306, 3-21064-00116, 200 pieces

Manufacturer reserves the right to make changes without notice.



- steel pipe shell with the wall thickness 4 mm
- faces of drawn steel sheet welded in the shell
- ball bearings 6306 C3

For garland type and belt width			Name – size: Flat roller 159×L/6306	Drawing no.	Dimensions [mm]		Weight [kg]	
					L1	L2	Rot. parts	Total
		1200	159×465 / 6306	3-21074-00586	473	497	9,1	12,6
		1400	159×530 / 6306	3-21074-00082	538	562	10,1	14,0
	1000		159×600 / 6306	3-21074-00083	608	632	11,2	15,5
	1200		159×670 / 6306	3-21074-00084	678	703	12,2	17,0
	1400		159×750 / 6306	3-21074-00085	758	783	13,5	18,8
			159×900 / 6306	3-21074-00099	908	932	15,8	22,0
800			159×950 / 6306	3-21074-00591	958	982	16,5	23,1
1000			159×1150 / 6306	3-21074-00092	1158	1183	19,6	27,4
1200			159×1400 / 6306	3-21074-00592	1408	1433	23,4	32,8
1400			159×1600 / 6306	3-21074-00095	1608	1633	26,4	37,1

Two-roller disposition is designed for bottom stations.
Other lengths, shafts and coatings are available on request.

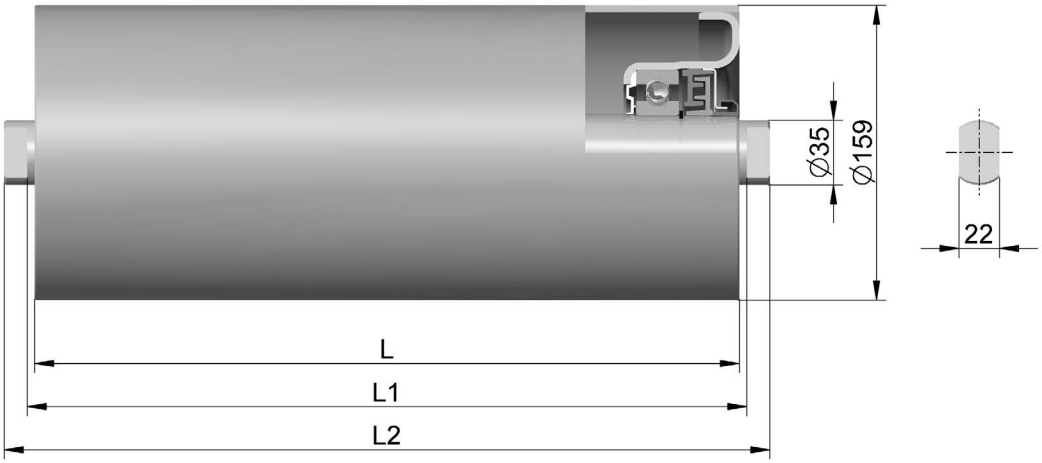
Surface finish – possible solutions

1) without coating
2) synthetic basic coating
3) polyester powder coating

Ordering example

Name, size, drawing number, quantity (pcs)
Flat roller 159×530 / 6306, 3-21074-00082, 200 pieces

Manufacturer reserves the right to make changes without notice.



- steel pipe shell with the wall thickness 4 mm
- faces of drawn steel sheet welded in the shell
- ball bearings 6308 C3

For garland type and belt width			Name – size: Flat roller 159×L/6308	Drawing no.	Dimensions [mm]		Weight [kg]	
					L1	L2	Rot. parts	Total
			159×465 / 6308	3-21074-00120	473	498	9,7	15,6
			159×530 / 6308	3-21074-00124	538	563	10,6	17,3
		1600	159×600 / 6308	3-21074-00127	608	633	11,7	19,2
		1800	159×670 / 6308	3-21074-00130	678	703	12,8	21,0
			159×750 / 6308	3-21074-00134	758	783	14,0	23,1
	1600		159×900 / 6308	3-21074-00138	908	933	16,3	27,0
			159×950 / 6308	3-21074-00136	958	983	17,1	28,3
	1800		159×1000 / 6308	3-21074-00141	1008	1033	17,8	29,6
			159×1150 / 6308	3-21074-00145	1158	1183	20,1	33,5
1200			159×1400 / 6308	3-21074-00148	1408	1433	23,9	40,0
1400			159×1600 / 6308	3-21074-00150	1608	1633	27,0	45,3
1600			159×1800 / 6308	3-21074-00151	1808	1848	30,0	50,6

Two-roller disposition is designed for bottom stations.
Other lengths, shafts and coatings are available on request.

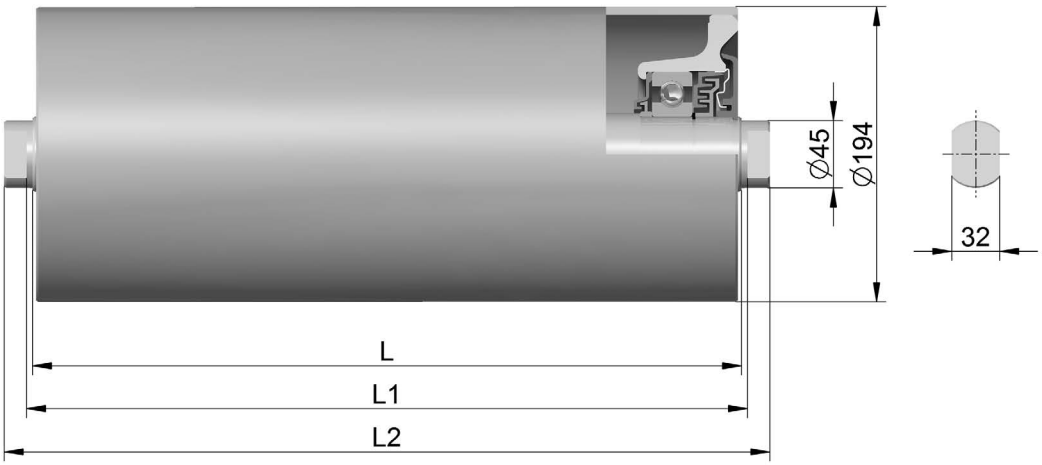
Surface finish – possible solutions

1) without coating
2) synthetic basic coating
3) polyester powder coating

Ordering example

Name, size, drawing number, quantity (pcs)
Flat roller 159×530 / 6308, 3-21074-00124, 200 pieces

Manufacturer reserves the right to make changes without notice.



- steel pipe shell with the wall thickness 5,6 mm
- forged steel faces welded in the shell
- ball bearings 6310 C3

For garland type and belt width			Name – size: Flat roller 194×L/6310	Drawing no.	Dimensions [mm]		Weight [kg]	
					L1	L2	Rot. parts	Total
		1600	194×600 / 6310	3-21084-00027	608	638	22,6	35,4
		1800	194×670 / 6310	3-21084-00030	678	708	24,4	38,5
		2000	194×750 / 6310	3-21084-00034	758	788	26,5	42,1
1800			194×900 / 6310	3-21084-00038	908	938	30,4	48,7
1800			194×950 / 6310	3-21084-00040	958	988	31,7	51,0
2000			194×1100 / 6310	3-21084-00043	1108	1138	35,6	57,7
2000			194×1150 / 6310	3-21084-00045	1158	1188	36,9	59,9

Other lengths, shafts and coatings are available on request.

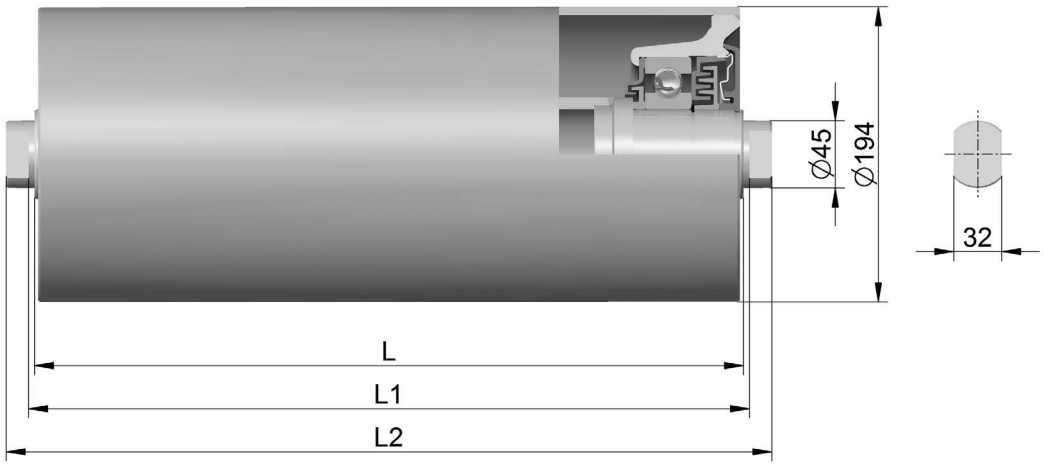
Surface finish – possible solutions

1) without coating
2) synthetic basic coating
3) polyester powder coating

Ordering example

Name, size, drawing number, quantity (pcs)
Flat roller 194×670 / 6310, 3-21084-00030, 200 pieces

Manufacturer reserves the right to make changes without notice.



- steel pipe shell with the wall thickness 5,6 mm
- forged steel faces welded in the shell
- ball bearings 6312 C3

For garland type and belt width			Name – size: Flat roller 194×L/6312	Drawing no.	Dimensions [mm]		Weight [kg]	
					L1	L2	Rot. parts	Total
		2000	194×750 / 6312	3-21084-00081	758	788	27,2	42,2
2000			194×1150 / 6312	3-21084-00085	1158	1188	37,6	58,0
2400			194×1350 / 6312	3-21084-00088	1358	1402	42,8	66,0

Other lengths, shafts and coatings are available on request.

Surface finish

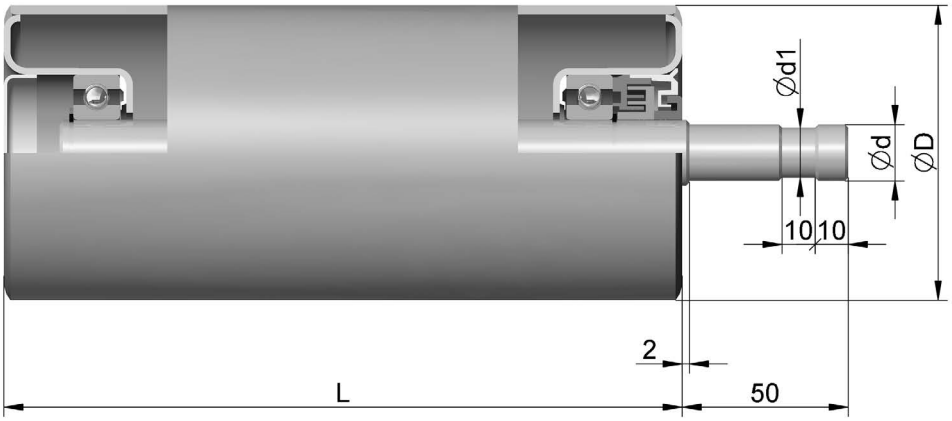
anti-corrosive primer synthetic coating

Ordering example

Name, size, drawing number, quantity (pcs)
Flat roller 194×750 / 6312, 3-21084-00081, 200 pieces

Manufacturer reserves the right to make changes without notice.

Guide rollers



- steel pipe shell with the wall thickness t
- faces of drawn steel sheet welded in the shell or welted
- ball bearings 6204 C3
- roller shaft end with a groove is designed to fit into the holder of the centering station

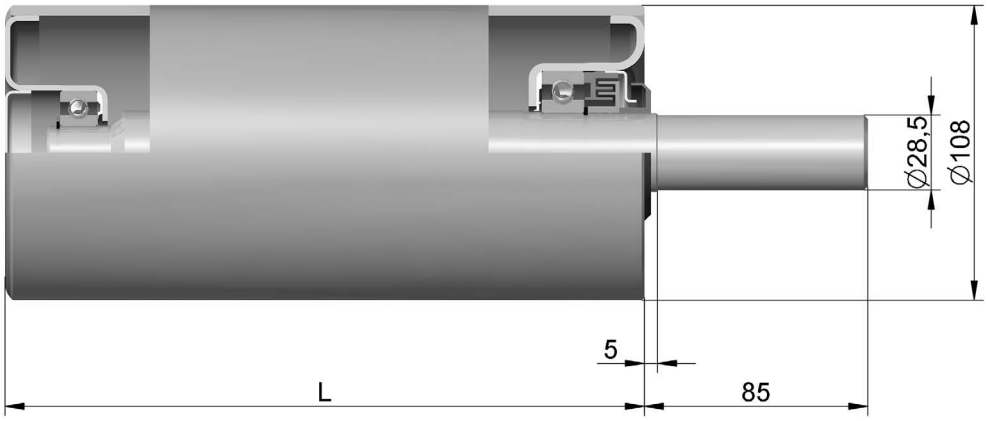
For belt width:	Name – size Guide roller. D×L/d/6204	Drawing no.	Dimensions [mm]		Weight [kg]
			d1	t	
400-800	89×160 / 17 / 6204	3-20344-00040	15	3	2,0
400-800	89×160 / 20 / 6204	3-20344-00015	17	3	2,0
400-800	89×200 / 17 / 6204	3-20344-00041	15	3	2,3
400-800	89×200 / 20 / 6204	3-20344-00017	17	3	2,4
800-1400	108×160 / 20 / 6204	3-20354-00081	17	3,5	2,5
800-1400	108×200 / 20 / 6204	3-20354-00082	17	3,5	3,0

Other lengths, shafts and coatings are available on request.
Guide rollers are designed to fit into standard centering stations.

Surface finish
polyester powder coating

Ordering example
Name, size, drawing number, quantity (pcs)
Guide roller 89×200 / 20 / 6204, 3-20344-00041, 50 pieces

Manufacturer reserves the right to make changes without notice.



- steel pipe shell with the wall thickness 4 mm
- faces of drawn steel sheet welded in the shell
- ball bearings 6206 and 6204 C3
- smooth roller shaft end is designed to fit into the holder of centering station

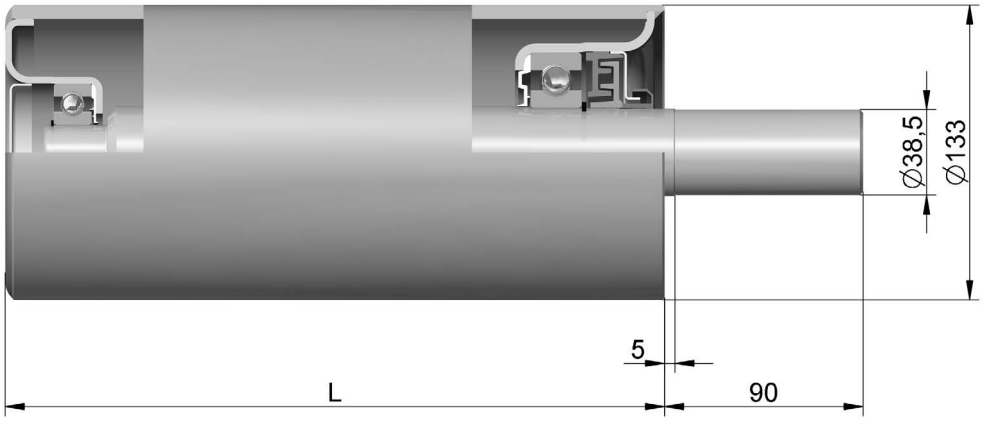
Name – size Guide roller. 108×L/6204/6206	Drawing no.	Weight [kg]
108×160 / 6204 / 6206	3-21454-00004	3,7
108×200 / 6204 / 6206	3-21454-00006	4,4

Other lengths, shafts and coatings are available on request.
Guide rollers are designed to fit into standard centering stations.

Surface finish – possible solutions:
1) without coating
2) synthetic basic coating
3) polyester powder coating

Ordering example
Name, size, drawing number, quantity (pcs)
Guide roller 108×200 / 6206, 3-21454-00006, 50 pieces

Manufacturer reserves the right to make changes without notice.



- steel pipe shell with the wall thickness 6,3 mm
- faces of drawn steel sheet welded in the shell
- ball bearings 6308 and 6305 C3
- smooth roller shaft end is designed to fit into the holder of centering station

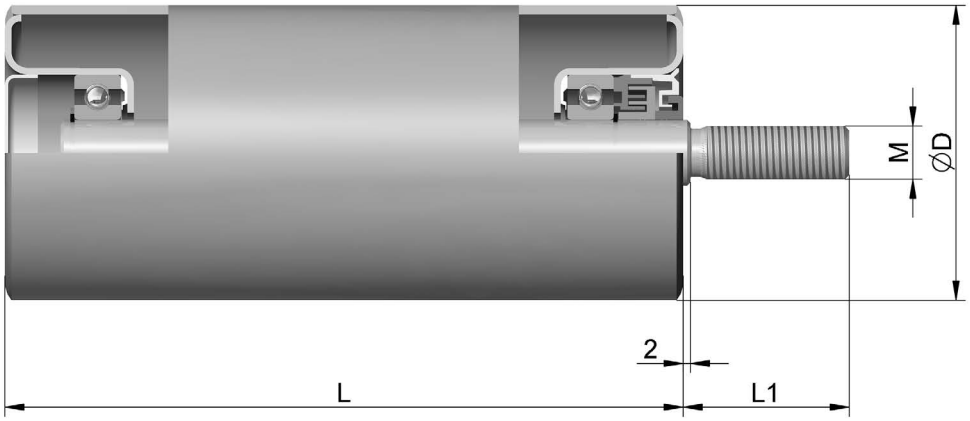
Name – size Guide roller. 133×L/6308	Drawing no.	Weight [kg]
133x200/6305/6308	3-21464-00006	8,4
133x250/6305/6308	3-21464-00008	9,9

Other lengths, shafts and coatings are available on request.
Guide rollers are designed to fit into standard centering stations.

Surface finish – possible solutions:
1) without coating
2) synthetic basic coating
3) polyester powder coating

Ordering example
Name, size, drawing number, quantity (pcs)
Guide roller 133×200 / 6308, 3-21464-00006, 50 pieces

Manufacturer reserves the right to make changes without notice.



- steel pipe shell with the wall thickness t
- faces of drawn steel sheet welded in the shell or welted
- ball bearings 6204 C3
- roller shaft end with external thread „M“

Name – size Guide roller. 108×L/d/6204	Drawing no.	Dimensions [mm]		Weight [kg]
		L1	t	
63×100 / M16	3-20324-00007	47	3	1,2
63×125 / M16	3-20324-00008	52	3	1,3
63×150 / M16	3-20324-00006	47	3	1,5
63×160 / M16	3-20324-00014	47	3	1,6
63×200 / M16	3-20324-00011	47	3	1,8
76×100 / M16	3-20334-00048	50	3	1,3
89×100 / M16	3-20344-00009	47	3	1,4
89×150 / M16	3-20344-00010	47	3	1,9
89×160 / M16	3-20344-00011	62	3	2,0
89×200 / M16	3-20344-00014	62	3	2,3
108×160 / M16	3-20354-00075	62	3	2,3
108×160 / M20	3-20354-00071	102	3,5	2,4
108×200 / M20	3-20354-00070	102	3,5	2,8

Other lengths, shafts and coatings are available on request.
Guide rollers are designed to guard the right position of the belt or to ensure the right position of the objects transported on rollways.

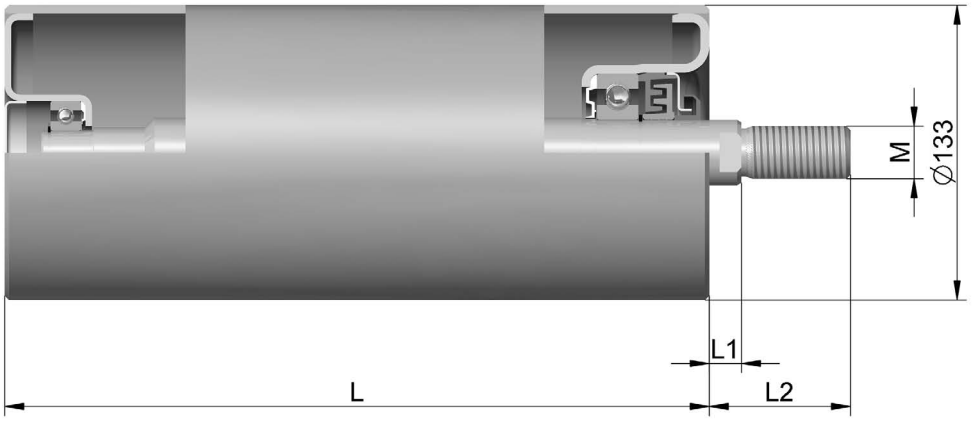
Surface finish

polyester powder coating

Ordering example

Name, size, drawing number, quantity (pcs)
Guide roller 89×160 / M16 / 6204, 3-20344-00011, 50 pieces

Manufacturer reserves the right to make changes without notice.



- steel pipe shell with the wall thickness 4,5 mm
- faces of drawn steel sheet welded in the shell
- ball bearings 6306 and 6204 C3
- roller shaft end with external thread „M“

Name – size Guide roller. D×L/6204/6306	Drawing no.	Dimensions [mm]		Weight [kg]
		L1	L2	
133x130 / M24	3-21364-00061	15	65	4,1
133x250 / M24	3-21364-00069	10	70	6,7

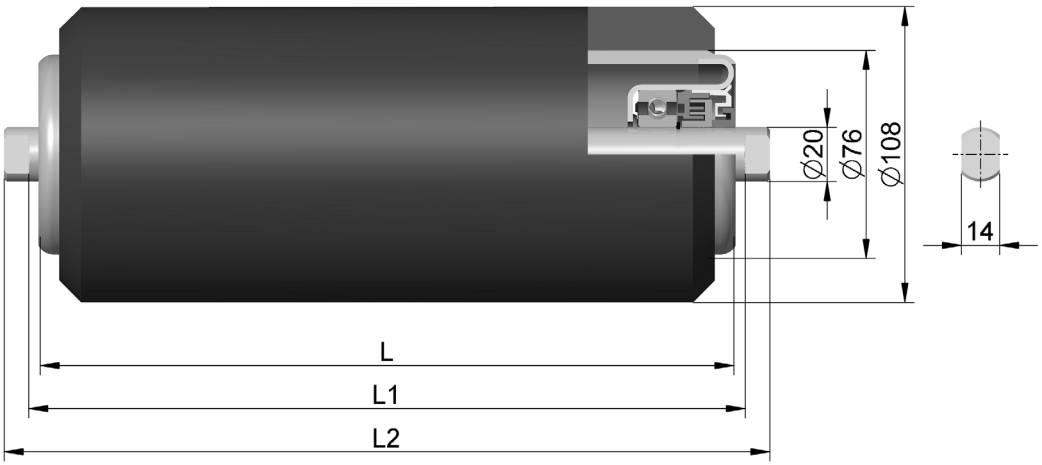
Other lengths, shafts and coatings are available on request.
Guide rollers are designed to guard the right position of the belt or to ensure the right position of the objects transported on rollways.

Surface finish – possible solutions:
1) without coating
2) synthetic basic coating
3) polyester powder coating

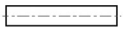
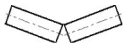
Ordering example
Name, size, drawing number, quantity (pcs)
Guide roller 133×250 / M24 / 6306, 3-21364-00069, 50 pieces

Manufacturer reserves the right to make changes without notice.

Rubber-lagged rollers



- steel pipe shell with the wall thickness 5 mm rubbered to ø108 with a hardness of 65 Sh
- faces of drawn steel sheet welded in the shell
- ball bearings 6204 C3

For garland type and belt width			Name – size: Rubber-lagged roller 108/76×L/6204	Drawing no.	Dimensions [mm]		Weight [kg]	
					L1	L2	Rot. parts	Total
		400	108/76×160 / 6204	3-20254-00051	168	186	2,6	3,2
		500	108/76×200 / 6204	3-20254-00052	208	226	3,2	3,9
	400	650	108/76×250 / 6204	3-20254-00061	258	276	4,0	4,8
	500	800	108/76×315 / 6204	3-20254-00062	323	341	5,0	6,0
	650	1000	108/76×380 / 6204	3-20254-00063	388	406	6,0	7,1
		1200	108/76×465 / 6204	3-20254-00055	473	491	7,3	8,6
400			108/76×500 / 6204	3-20254-00066	508	546	7,8	9,3
500			108/76×600 / 6204	3-20254-00067	608	646	9,3	11,0
650			108/76×750 / 6204	3-20254-00065	758	796	11,6	13,7
800			108/76×950 / 6204	3-20254-00070	958	996	14,6	17,2
1000			108/76×1150 / 6204	3-20254-00197	1158	1196	17,7	20,8

Other lengths, shafts and coatings are available on request.

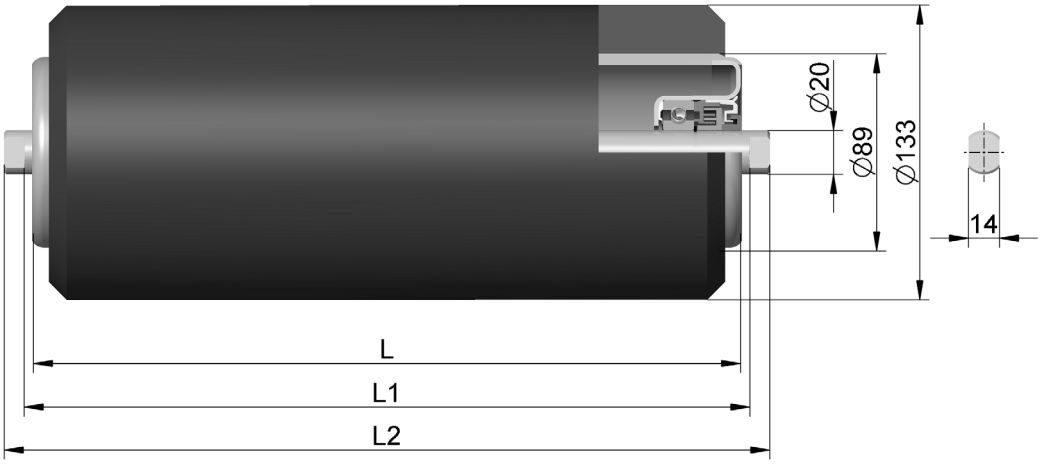
Surface finish

anti-corrosive primer synthetic coating

Ordering example

Name, size, drawing number, quantity (pcs)
Rubber-lagged roller 108/76×200 / 6204, 3-20254-00052, 50 pieces

Manufacturer reserves the right to make changes without notice.



- steel pipe shell with the wall thickness 5 mm rubbered to ø133 with a hardness of 65 Sh
- faces of drawn steel sheet welded in the shell
- ball bearings 6204 C3

For garland type and belt width			Name – size: Rubber-lagged roller 108/76×L/6204	Drawing no.	Dimensions [mm]		Weight [kg]	
					L1	L2	Rot. parts	Total
			133/89×250 / 6204	3-20264-00008	258	276	5,4	6,2
			133/89×315 / 6204	3-20264-00010	323	341	6,7	7,7
		1000	133/89×380 / 6204	3-20264-00016	388	406	8,1	9,2
		1200	133/89×465 / 6204	3-20264-00020	473	491	9,9	11,2
		1400	133/89×530 / 6204	3-20264-00024	538	556	11,3	12,8
			133/89×600 / 6204	3-20264-00027	608	626	12,7	14,4
1000			133/89×1150 / 6204	3-20264-00045	1158	1196	24,3	27,4
1200			133/89×1400 / 6204	3-20264-00048	1408	1446	29,6	33,3
1400			133/89×1600 / 6204	3-20264-00050	1608	1646	33,8	38,0

Other lengths, shafts and coatings are available on request.

Surface finish

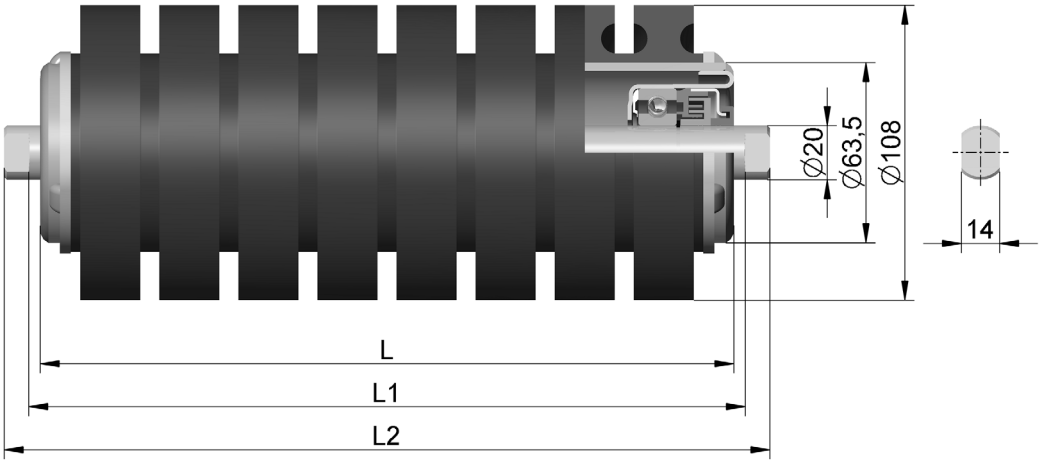
anti-corrosive primer synthetic coating

Ordering example

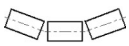
Name, size, drawing number, quantity (pcs)
Rubber-lagged roller 133/89×380 / 6204, 3-20264-00016, 50 pieces

Manufacturer reserves the right to make changes without notice.

Impact rollers



- steel pipe shell with the wall thickness 3mm
- rubber rings ø108 and hardness 65 Sh are pressed and secured on the steel pipe shell
- faces of drawn steel sheet welded in the shell
- ball bearings 6204 C3

For belt width 	Name – size: Impact roller 108/76×L/6204	Dimensions [mm]		Number of rubber rings	Total weight [kg]
		L1	L2		
650	108/63×250 / 6204	258	276	8	3,7
800	108/63×315 / 6204	323	341	10	4,5
1000	108/63×380 / 6204	388	406	13	5,5
1200	108/63×465 / 6204	473	491	15	6,4
	108/63×600 / 6204	608	646	19	8,1

Other lengths, shafts and coating are available on request.

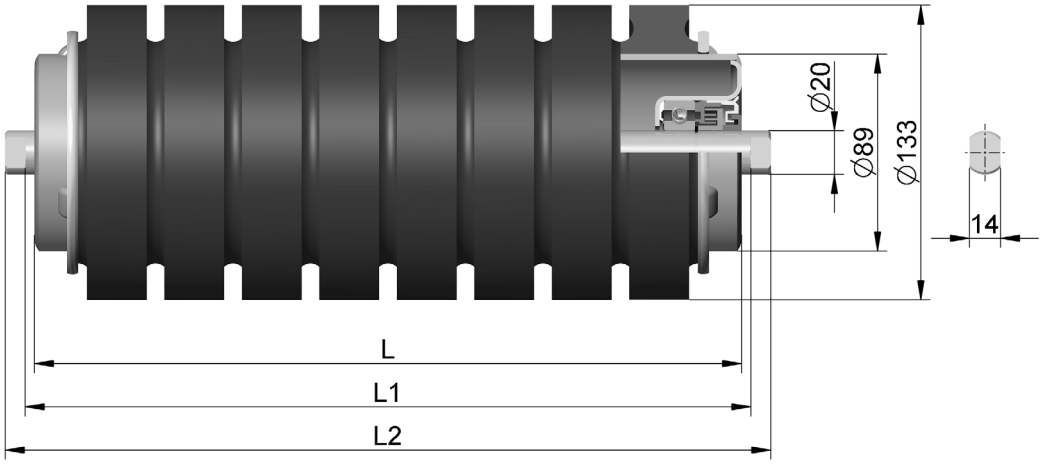
Surface finish

anti-corrosive primer synthetic coating

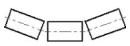
Ordering example

Name, size, quantity (pcs)
Impact roller, 108/63×250 / 6204 , 50 pieces

Manufacturer reserves the right to make changes without notice.



- steel pipe shell with the wall thickness 3 mm
- rubber rings ø133 and hardness 65 Sh are pressed and secured on the steel pipe shell
- faces of drawn steel sheet welded in the shell
- ball bearings 6204 C3

For belt width 	Name – size: Impact roller 108/76×L/6204	Dimensions [mm]		Number of rubber rings	Total weight [kg]
		L1	L2		
	133/89×250 / 6204	258	276	6	4,9
	133/89×315 / 6204	323	341	8	6,1
1000	133/89×380 / 6204	388	406	10	7,3
1200	133/89×465 / 6204	473	491	13	9,0
1400	133/89×530 / 6204	538	556	15	10,9

Other lengths, shafts and coating are available on request.

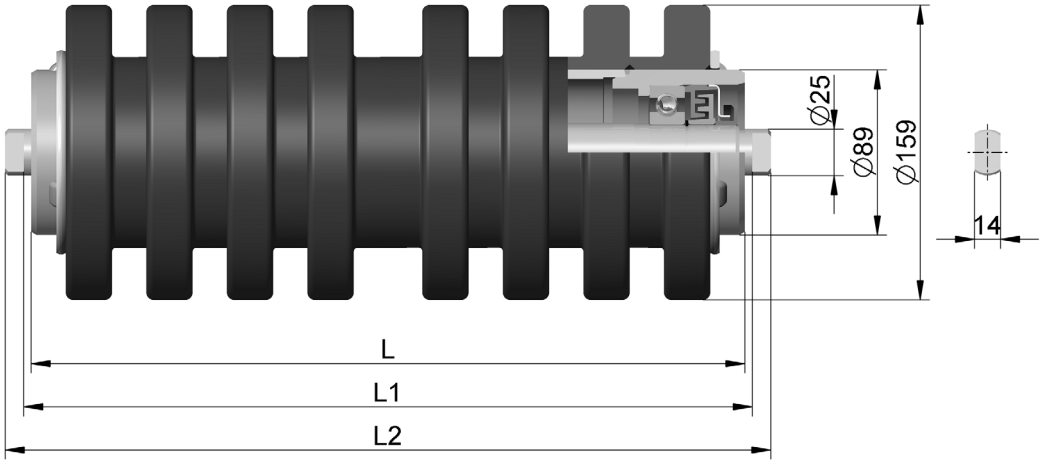
Surface finish

anti-corrosive primer synthetic coating

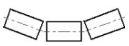
Ordering example

Name, size, quantity (pcs)
Impact roller, 133/89×380 / 6204, 50 pieces

Manufacturer reserves the right to make changes without notice.



- steel pipe shell with the wall thickness 5 mm
- rubber rings ø159 and hardness 65 Sh are pressed and secured on the steel pipe shell
- steel tube faces machined and welded in the shell
- ball bearings 6306 C3

For belt width 	Name – size: Impact roller 159/89×L/6306	Dimensions [mm]		Number of rubber rings	Total weight [kg]
		L1	L2		
800	159/89x315/6306	323	343	7	11,2
1000	159/89x380/6306	388	408	8	12,9
1200	159/89x465/6306	473	493	10	15,5
1400	159/89x530/6306	538	558	12	17,7

Other lengths, shafts and coating are available on request.

Surface finish

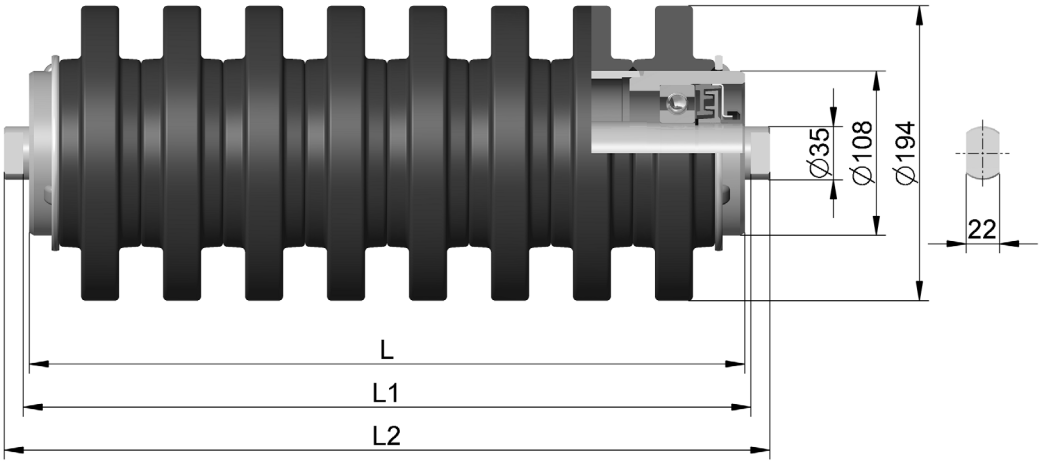
anti-corrosive primer synthetic coating

Ordering example

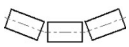
Name, size, quantity (pcs)
Impact roller, 159/89×380 / 6306, 50 pieces

Manufacturer reserves the right to make changes without notice.

IMPACT ROLLER
ø194/108 × L / 6308



- steel pipe shell with the wall thickness 5 mm
- rubber rings ø194 and hardness 65 Sh are pressed and secured on the steel pipe shell
- steel tube faces machined and welded in the shell
- ball bearings 6308 C3

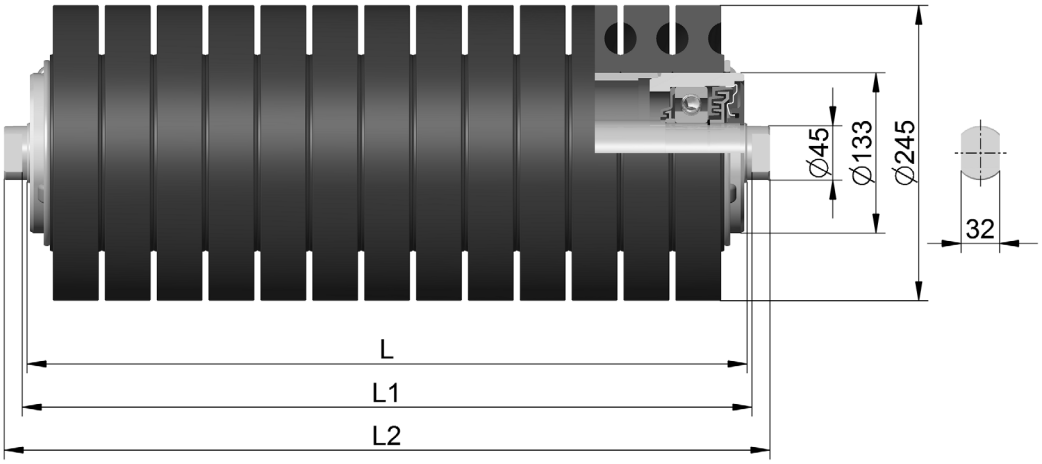
For belt width 	Name – size: Impact roller 194/108×L/6308	Dimensions [mm]		Number of rubber rings	Total weight [kg]
		L1	L2		
1600	194/108×600 / 6308	608	633	11	27,2
1800	194/108×670 / 6308	678	703	13	30,6

Other lengths, shafts and coating are available on request.

Surface finish
anti-corrosive primer synthetic coating

Ordering example
Name, size, quantity (pcs)
Impact roller, 194/108×600 / 6308, 50 pieces

Manufacturer reserves the right to make changes without notice.



- steel pipe shell with the wall thickness 6,3 mm
- rubber rings ø245 and hardness 65 Sh are pressed and secured on the steel pipe shell
- steel tube faces machined and welded in the shell
- ball bearings 6310 C3

For belt width	Name – size: Impact roller 245/133×L/6310	Dimensions [mm]		Number of rubber rings	Total weight [kg]
		L1	L2		
1600	245/133×600 / 6310	608	638	13	49,2
1800	245/133×670 / 6310	678	708	14	53,5
2000	245/133×750 / 6310	758	788	16	59,9

Other lengths, shafts and coating are available on request.

Surface finish

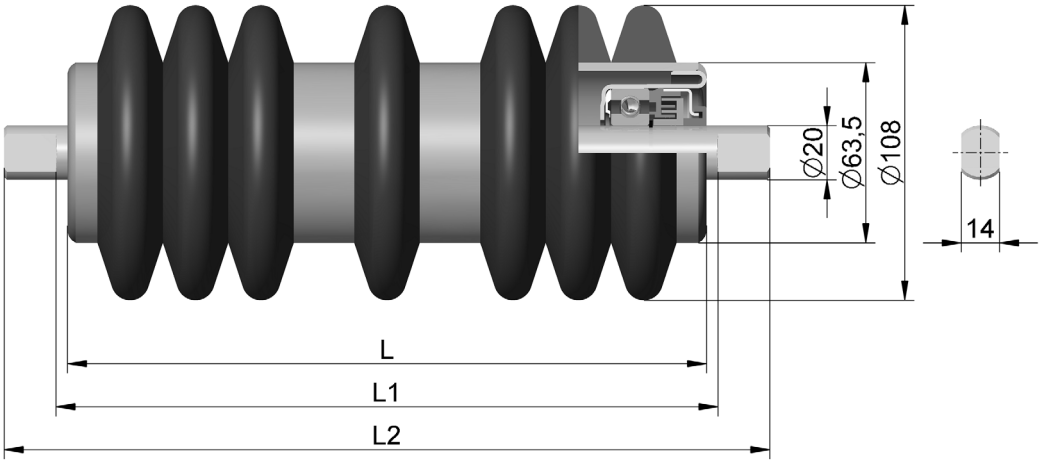
anti-corrosive primer synthetic coating

Ordering example

Name, size, quantity (pcs)
Impact roller, 245/133×750 / 6310, 50 pieces

Manufacturer reserves the right to make changes without notice.

Disc rollers



- steel pipe shell with the wall thickness 3mm
- rubber discs ø108 and hardness 65 Sh are pressed on the steel pipe shell
- faces of drawn steel sheet welded in the shell
- ball bearings 6204 C3

For belt width	Name – size: Disc roller 108/63×L/6204	Dimensions [mm]		Number of rubber discs	Weight [kg]	
		L1	L2		Rot. parts	Total
400	108/63×500 / 6204	508	546	4+2+4	4,1	5,6
500	108/63×600 / 6204	608	646	5+2+5	4,9	6,6
650	108/63×750 / 6204	758	796	5+3+5	5,7	7,8
800	108/63×950 / 6204	958	996	5+5+5	6,9	9,5
1000	108/63×1150 / 6204	1158	1196	5+6+5	8,0	11,1
1200	108/63×1400 / 6204	1408	1446	6+7+6	9,6	13,3

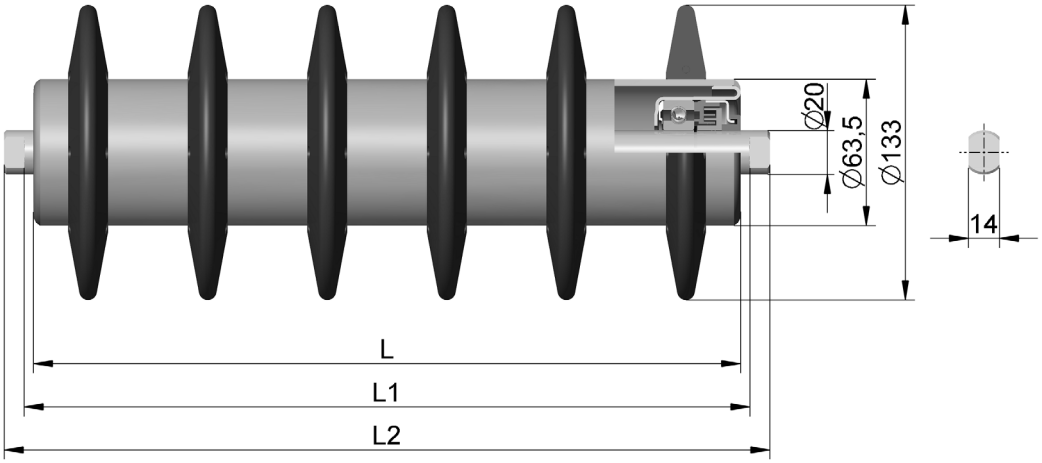
Other lengths, shafts and coating are available on request.

Surface finish
polyester powder coating

Ordering example
Name, size, quantity (pcs)
Disc roller, 108/63×500 / 6204 , 100 pieces

Manufacturer reserves the right to make changes without notice.

DISC ROLLER
ø133/63 × L / 6204



- steel pipe shell with the wall thickness 3mm
- rubber discs ø133 and hardness 65 Sh are pressed on the steel pipe shell
- faces of drawn steel sheet welded in the shell
- ball bearings 6204 C3

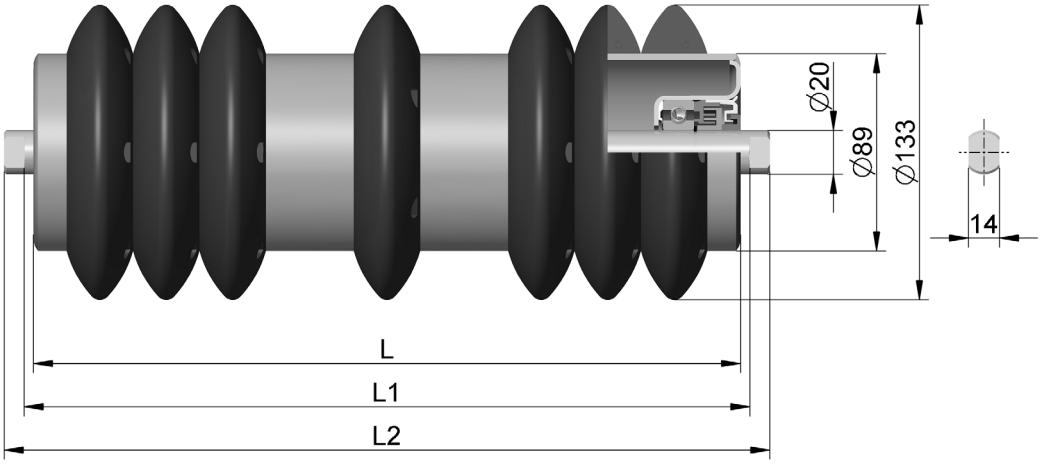
For belt width		Name – size: Disc roller 133/63×L/6204	Dimensions [mm]		Number of rubber discs	Weight [kg]	
			L1	L2		Rot. parts	Total
	800	133/63×465 / 6204	473	491	8	3,8	5,2
500		133/63×600 / 6204	608	646	12	5,1	6,9
	1000	133/63×600 / 6204	608	626	12	5,1	6,8
	1200	133/63×670 / 6204	678	696	10	5,1	6,9
	1400	133/63×750 / 6204	758	778	15	6,3	8,4
650		133/63×750 / 6204	758	796	15	6,3	8,4
800		133/63×950 / 6204	958	996	14	7,0	9,6
1000		133/63×1150 / 6204	1158	1196	17	8,5	11,6
1200		133/63×1400 / 6204	1408	1446	19	9,9	13,7
1400		133/63×1600 / 6204	1608	1646	21	11,2	15,4

Other lengths, shafts and coating are available on request.

Surface finish
polyester powder coating

Ordering example
Name, size, quantity (pcs)
Disc roller, 133/63×465 / 6204 , 100 pieces

Manufacturer reserves the right to make changes without notice.



- steel pipe shell with the wall thickness 3mm
- rubber discs ø133 and hardness 65 Sh are pressed on the steel pipe shell
- faces of drawn steel sheet welded in the shell
- ball bearings 6204 C3

For belt width		Name – size: Disc roller 133/89×L/6204	Dimensions [mm]		Number of rubber discs	Weight [kg]	
			L1	L2		Rot. parts	Total
		133/89×500 / 6204	508	526	3+3+3	5,8	7,2
	1000	133/89×600 / 6204	608	626	4+3+4	6,9	8,6
	1200	133/89×670 / 6204	678	696	4+3+4	7,4	9,2
	1400	133/89×750 / 6204	758	776	4+4+4	8,1	10,2
650		133/89×750 / 6204	758	796	4+4+4	8,1	10,2
800		133/89×950 / 6204	958	996	4+6+4	9,9	12,5
1000		133/89×1150 / 6204	1158	1196	5+7+5	11,9	15,0
1200		133/89×1400 / 6204	1408	1446	5+10+5	14,3	18,0
1400		133/89×1600 / 6204	1608	1646	5+12+5	16,0	20,2

Other lengths, shafts and coating are available on request.

Surface finish

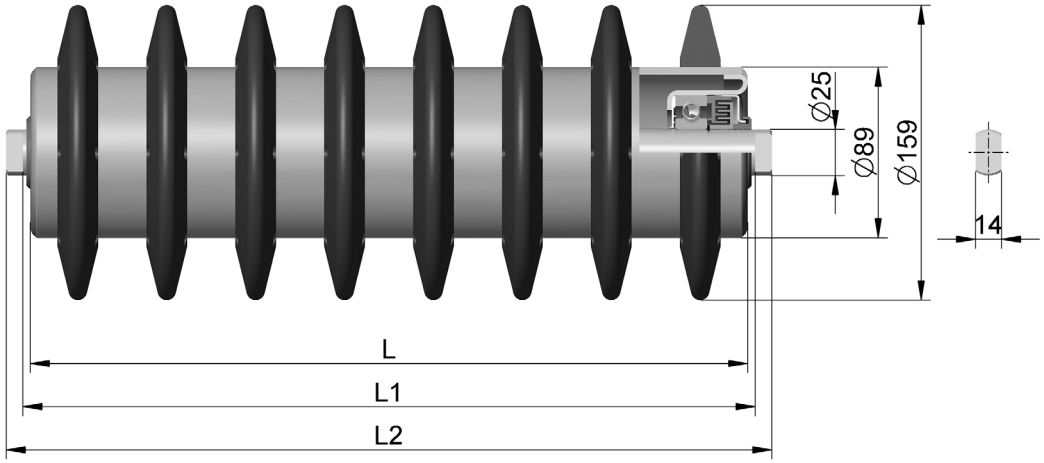
polyester powder coating

Ordering example

Name, size, quantity (pcs)
Disc roller, 133/89×670 / 6204, 100 pieces

Manufacturer reserves the right to make changes without notice.

DISC ROLLER
ø159/89 × L / 6305



- steel pipe shell with the wall thickness 4mm
- rubber discs ø159 and hardness 65 Sh are pressed on the steel pipe shell
- faces of drawn steel sheet welded in the shell
- ball bearings 6305 C3

For belt width		Name – size: Disc roller 159/89×L/630	Dimensions [mm]		Number of rubber discs	Weight [kg]	
			L1	L2		Rot. parts	Total
	800	159/89×465 / 6305	473	491	9	7,3	9,6
	1000	159/89×600 / 6305	608	626	12	9,3	12,2
	1200	159/89×670 / 6305	678	696	13	10,2	13,4
	1400	159/89×750 / 6305	758	776	15	11,5	15,0
800		159/89×950 / 6305	958	996	15	13,1	17,5
1000		159/89×1150 / 6305	1158	1196	7+3+7	15,4	20,6
1200		159/89×1400 / 6305	1408	1446	7+5+7	18,1	24,4
1400		159/89×1600 / 6305	1608	1646	7+7+7	20,4	27,5

Other lengths, shafts and coating are available on request.

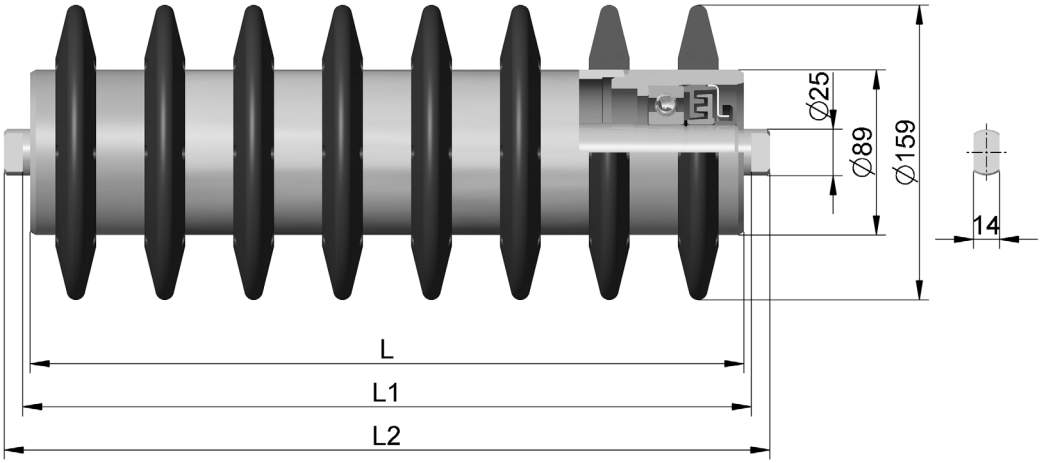
Surface finish – possible solutions

1) without coating
2) synthetic basic coating
3) polyester powder coating

Ordering example

Name, size, quantity (pcs)
Disc roller, 159/89×670 / 6305, 100 pieces

Manufacturer reserves the right to make changes without notice.



- steel pipe shell with the wall thickness 4mm
- rubber discs ø159 and hardness 65 Sh are pressed on the steel pipe shell
- steel tube faces machined and welded in the shell
- ball bearings 6306 C3

For belt width		Name – size: Disc roller 159/89×L/6306	Dimensions [mm]		Number of rubber discs	Weight [kg]	
			L1	L2		Rot. parts	Total
	800	159/89×465 / 6306	473	493	9	8,2	11,6
	1000	159/89×600 / 6306	608	628	12	10,2	14,5
	1200	159/89×670 / 6306	678	698	13	11,1	15,8
	1400	159/89×750 / 6306	758	778	15	12,4	17,6
800		159/89×950 / 6306	958	998	15	14,0	20,6
1000		159/89×1150 / 6306	1158	1198	7+3+7	16,3	24,1
1200		159/89×1400 / 6306	1408	1448	7+5+7	19,0	28,4
1400		159/89×1600 / 6306	1608	1648	7+7+7	21,3	31,9

Other lengths, shafts and coating are available on request.

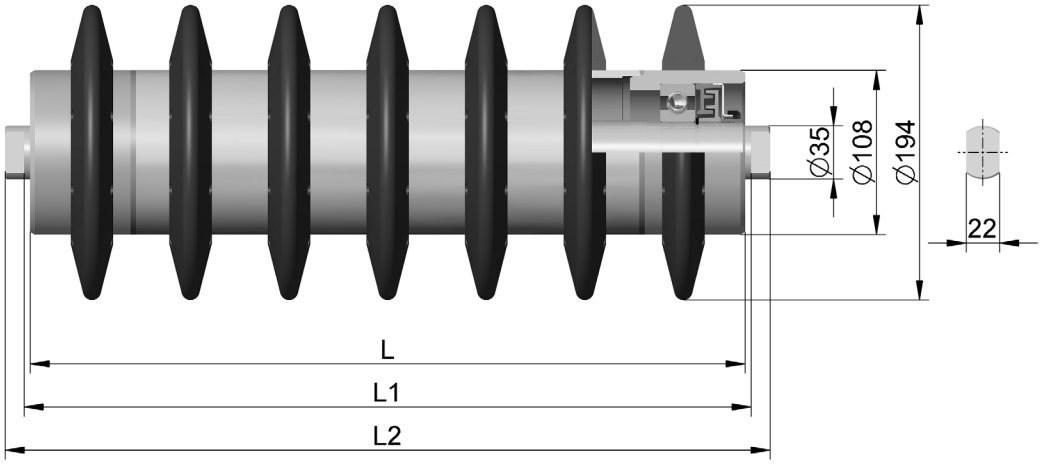
Surface finish – possible solutions

1) without coating
2) synthetic basic coating
3) polyester powder coating

Ordering example

Name, size, quantity (pcs)
Disc roller, 159/89×670 / 6306, 100 pieces

Manufacturer reserves the right to make changes without notice.



- steel pipe shell with the wall thickness 5mm
- rubber discs ø194 and hardness 65 Sh are pressed on the steel pipe shell
- steel tube faces machined and welded in the shell
- ball bearings 6308 C3

For belt width		Name – size: Disc roller 194/108×L/6308	Dimensions [mm]		Number of rubber discs	Weight [kg]	
			L1	L2		Rot. parts	Total
	1600	194/108×900 / 6308	908	933	13	20,8	31,5
	1800	194/108×1000 / 6308	1008	1033	15	23,2	35,0
	2000	194/108×1150 / 6308	1158	1183	18	26,7	40,1

Other lengths, shafts and coating are available on request.

Surface finish – possible solutions

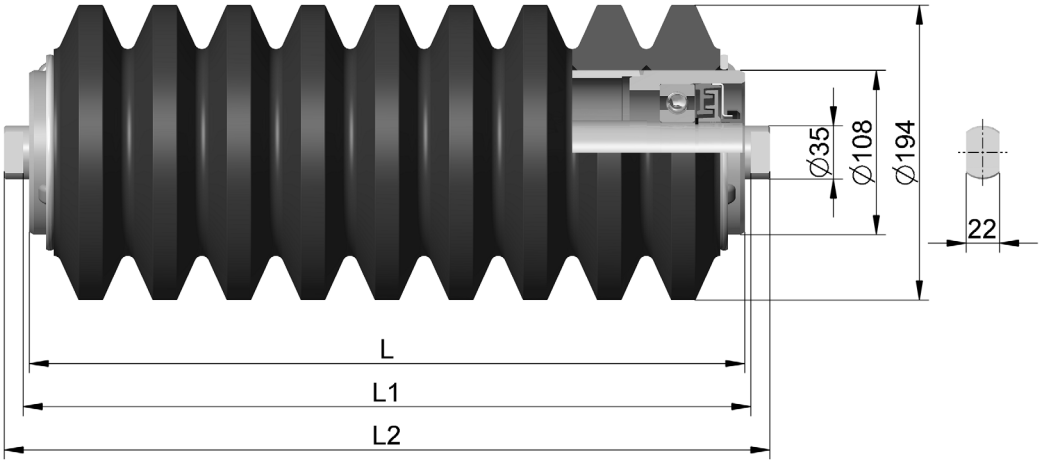
1) without coating
2) synthetic basic coating
3) polyester powder coating

Ordering example

Name, size, quantity (pcs)

Disc roller, 194/108×900 / 6308 , 100 pieces

Manufacturer reserves the right to make changes without notice.



- steel pipe shell with the wall thickness 5mm
- rubber discs ø194 and hardness 65 Sh are pressed on the steel pipe shell
- steel tube faces machined and welded in the shell
- ball bearings 6308 C3

For belt width		Name – size: Corrugated roller 194/108×L/6308	Dimensions [mm]		Number of rubber discs	Weight [kg]	
			L1	L2		Rot. parts	Total
	1600	194/108×900 / 6308	908	933	18	32,5	43,2
	1800	194/108×1000 / 6308	1008	1033	20	35,9	47,7

Other lengths, shafts and coating are available on request.

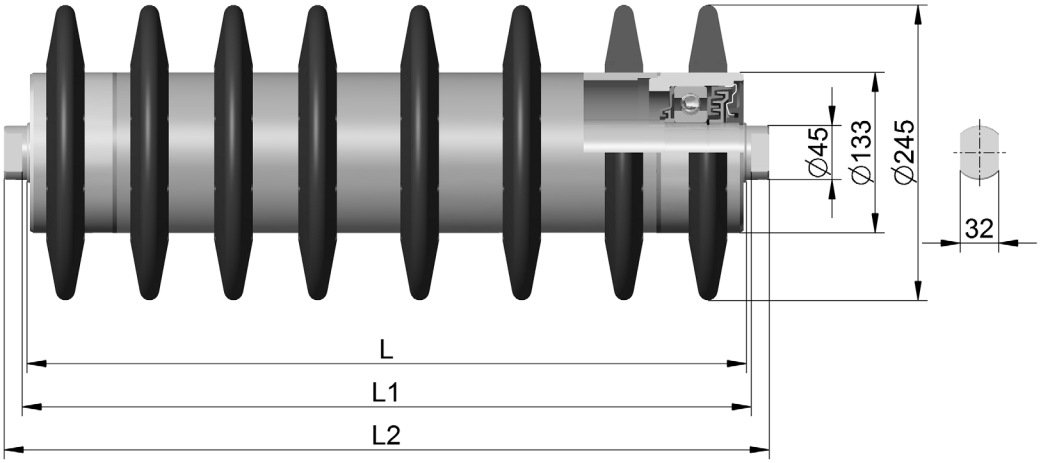
Surface finish

anti-corrosive primer synthetic coating

Ordering example

Name, size, quantity (pcs)
Corrugated roller, 194/108×900 / 6308 , 100 pieces

Manufacturer reserves the right to make changes without notice.



- steel pipe shell with the wall thickness 6,3 mm
- rubber discs ø245 and hardness 65 Sh are pressed on the steel pipe shell
- steel tube faces machined and welded in the shell
- ball bearings 6310 C3

For belt width		Name – size: Disc roller 1245/133×L/6310	Dimensions [mm]		Number of rubber discs	Weight [kg]	
			L1	L2		Rot. parts	Total
	2000	245/133×1150 / 6310	1158	1188	18	46,0	68,9

Other lengths, shafts and coating are available on request.

Surface finish – possible solutions

1) without coating
2) synthetic basic coating
3) polyester powder coating

Ordering example

Name, size, quantity (pcs)
Disc roller, 245/133×1150/6310, 100 pieces

Manufacturer reserves the right to make changes without notice.

GARLAND STATIONS

TECHNICAL SPECIFICATIONS – GARLAND STATIONS

DESIGN DESCRIPTION

Specific description of the rollers is included in catalogue sheets of garland stations.
The rollers in garland stations are connected by means of:

- chain couplers in Gcx garland stations
- pins with slats in Glx garland stations
- loop and hook in GOHx top garland stations
- loop and „C“ suspensions in GORx garland stations

The connections enable spring loading of rollers in higher loading and so quieter conveyor motion and belt protection against puncture. The ends of roller axes are modified for attaching connection roller components and suspension onto supporting structure. Suspension is made by means of snap hooks in top garland stations or chains in bottom garland stations.
More detailed illustrations and dimensions are provided in the catalogue sheets according to types.

OPERATING CONDITIONS

- Transported material
  Loose unsorted material with grain size according to ČSN 260070 (ISO 3435) and bulk density up to 2,1 t/m^3. Informative grain size values (lump content up to 5 %)

B [mm]	1200	1200	1600	1800	2000	2250
Max. Grain size [mm]	500	500	50	750	800	800

- Conveying speed
  - max. 5 m/s for belt width B 1200 – 1400 and rollers with bearings 6306
  - max. 6,3 m/s for belt width B 1600 – 2250 and rollers with bearings 6308 – 6312
- Working conditions
  Moderate climate WT in combination with chemical and mechanical contamination E41 ČSN EN 60721-3-4 (ČSN 038009). Working temperature range from -20°C to +35°C.
- Storage
  Garland stations must be stored on a pallets in an enclose storehouse on stabilised solid ground. Storage temperatures range from -25°C to +35°C. Storage for longer than 6 months is not recommended.
- Installation and maintenance
  Mounting of rollers in garland stations and subsequently completed garland stations on the conveyor frame can be only carried out by skilled workers and designated organisations. Installed rollers should be rotated by hand to check that they have been installed correctly. During operation it is necessary to check that rollers are working correctly. Rollers that are not working properly (e.g. incorrect rotation, whistling, overheating, increased axial and radial clearance, shell or rubber wear, deformed) must be replaced.

TECHNICAL DATA

- Main dimensions
  Standard roller dimensions in complete garland stations are included in the relevant catalogue sheets.
- Roller loading
  Permissible roller loading follows from the load of completely filled top belt profile with loose material in the bulk density = 2,1 t/m^3 and garland stations spacing of 1,2–1,5 m (ČSN ISO 5048)

B [mm]	1200	1400	1600	1800	2000	2250
Max. grain size [mm]	270	370	497	635	795	918

The loading applies for garland stations spacing of 1,5 m

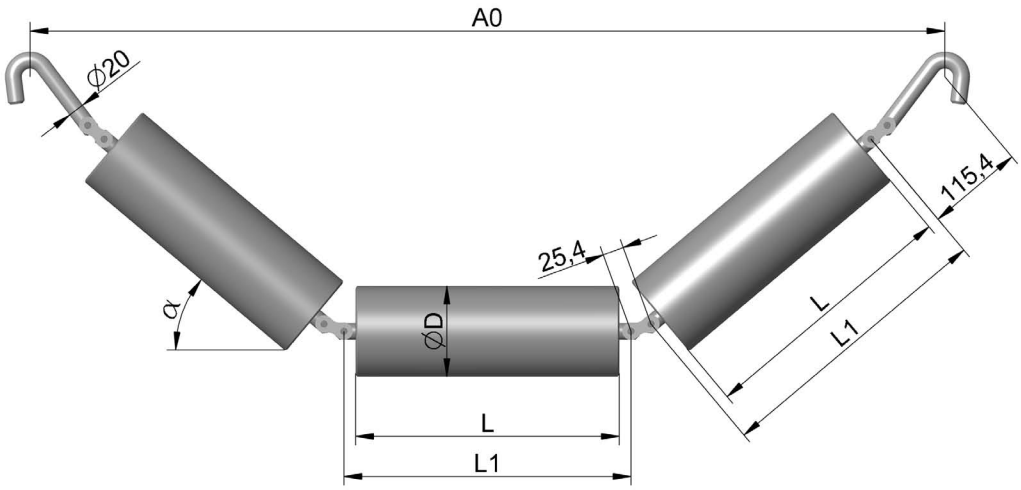
- Service life
  The average service life of roller (bearing durability) is 30.000 working hours within 5 years of the production date. This service life is also valid if all operational conditions are met and the rollers are installed within 6 months of the production date. The service life doesn't apply to rubber or polyurethane discs and the conveying of extremely abrasive bulk materials, e. g. fly-ash, and slag.
- Hardness
  Rubber hardness in disc rollers is 65°Sh as standard.
  Polyurethane hardness on demand..

COMMERCIAL SPECIFICATIONS

- Order should include: name, size, quantity, special requirements(balancing, surface finish etc.)
- Packaging
  Garland stations are supplied in pre-assembled conditions as single rollers on wooden pallets 800 x 1200 mm.
  Different types of packaging must be agreed in advance with the sales department and must be specified in the order.
  Each pallet is marked with a label, stating the name and size, order number, marking and quantity.
- Acceptance and testing
  Unless agreed in advance, acceptance and testing is not performed. If acceptance and quality inspection are required please state this before ordering.
- Guarantee period
  If all the requirements of these specifications are met, the producer provides a 24 months guarantee from the date of installation, however no longer than 30 months from the delivery date.

Manufacturer reserves the right to make changes without notice.

Top garland stations



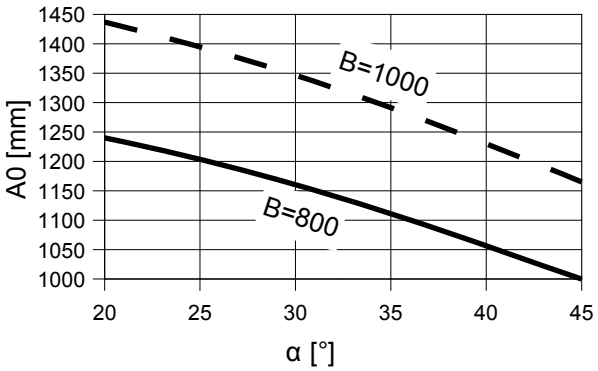
- station consists of three flat garland rollers with bearing 6204 (page 15, 18)
- rollers are connected by flat chain connectors
- station is suspended by hooks

Belt width	Drawing no.	Dimensions [mm]			Weight [kg]
		D	L	L1	
800	3-22444-13601	89	315	343	10,9
800	3-22454-13602	108	315	343	17,3
1000	3-22454-14603	108	380	412	15,2

Garland stations are delivered on wooden pallets 1200x800 mm.

Surface finish

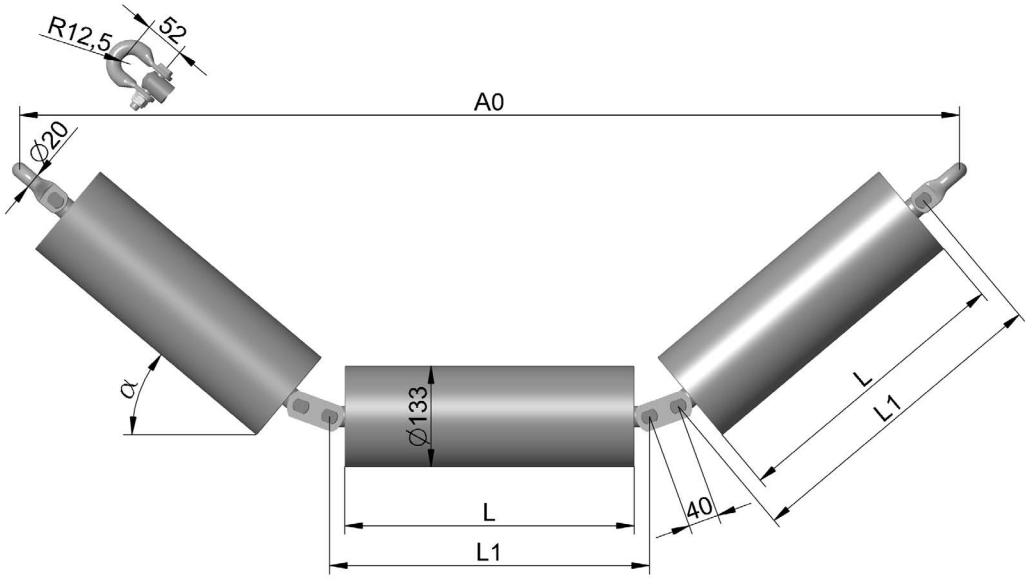
polyester powder coating



Ordering example

Name, size, drawing number, quantity (pcs)
Garland station GCH B800, 3-22444-13601, 100 pieces

Manufacturer reserves the right to make changes without notice.



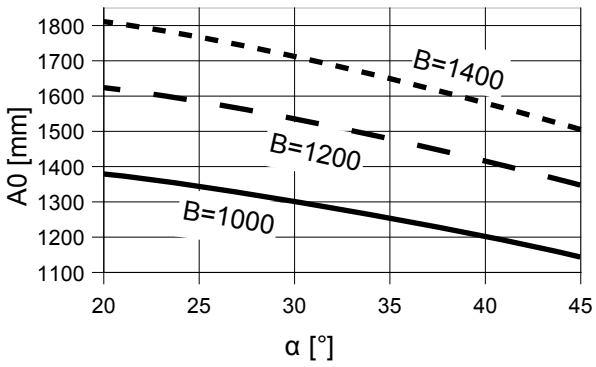
- station consists of three flat garland rollers ø133 with bearing 6306 (page 22)
- rollers are connected by slats and pins
- station is suspended by forged shackles

Belt width	Drawing no.	Dimensions [mm]		Weight [kg]
		L	L1	
1000	3-22464-14614	380	420	35,1
1200	3-22464-15614	465	505	38,2
1400	3-22464-16614	530	570	40,8

Garland stations are delivered on wooden pallets 1200x800 mm.

Surface finish – possible solutions

1) without coating
2) synthetic basic coating
3) polyester powder coating

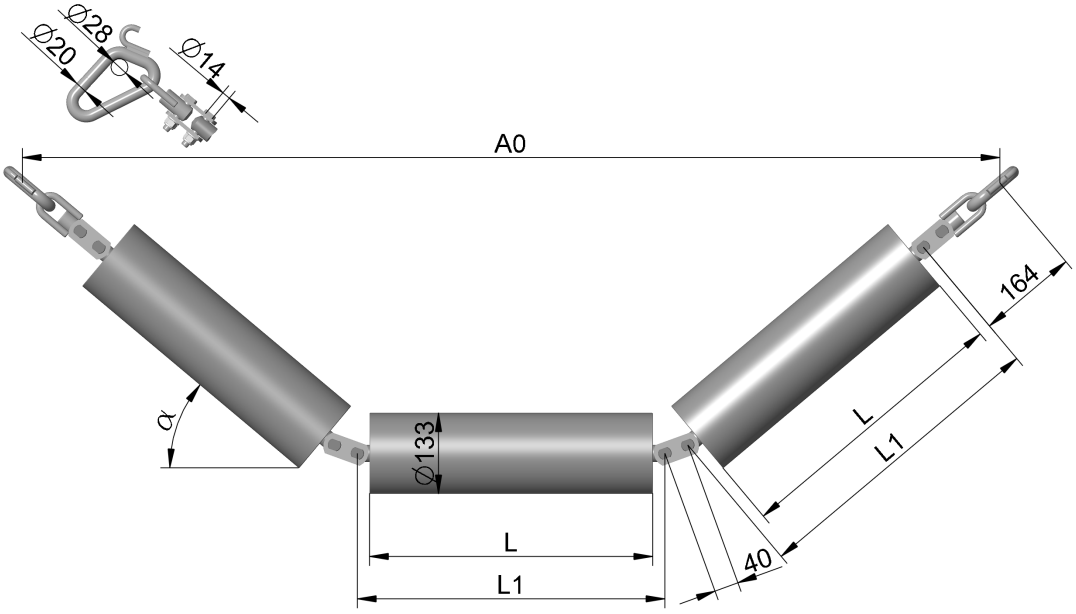


Ordering example

Name, size, drawing number, quantity (pcs)

Garland station GLT B1200, 3-22464-15614, 100 pieces

Manufacturer reserves the right to make changes without notice.



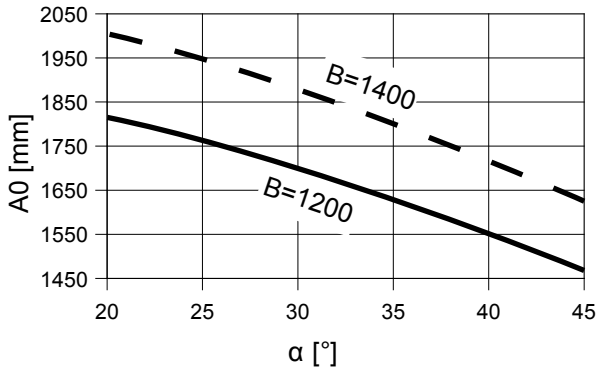
- station consists of three flat garland rollers ø133 with bearing 6306 (page 22)
- rollers are connected by slats and pins
- station is suspended by snap hooks

Belt width	Drawing no.	Dimensions [mm]		Weight [kg]
		L	L1	
1200	3-22464-15613	465	505	36,6
1400	3-22464-16613	530	570	44,5

Garland stations are delivered on wooden pallets 1200x800 mm.

Surface finish – possible solutions

1) without coating
2) synthetic basic coating
3) polyester powder coating

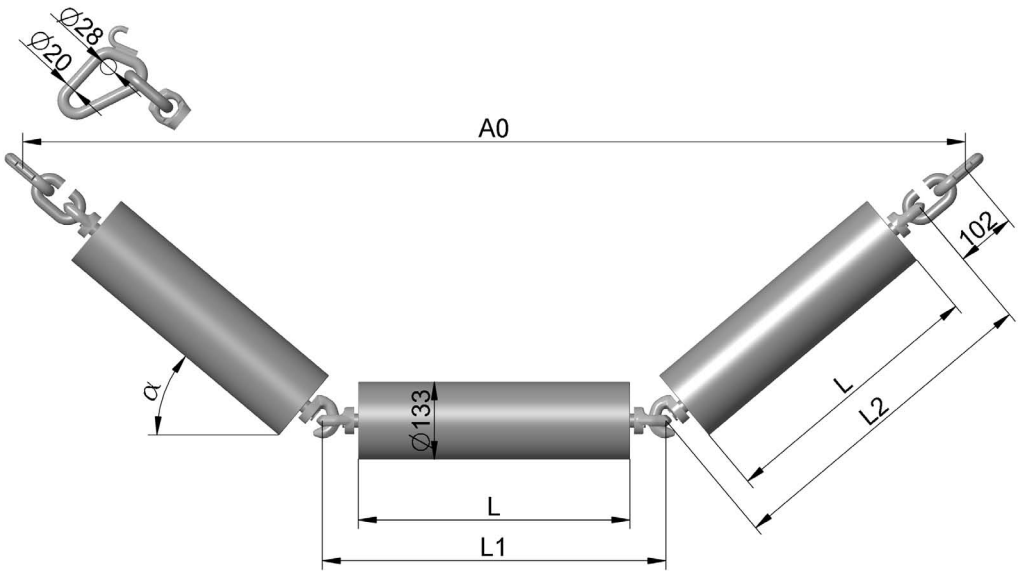


Ordering example

Name, size, drawing number, quantity (pcs)

Garland station GLZ B1200, 3-22464-15613, 100 pieces

Manufacturer reserves the right to make changes without notice.



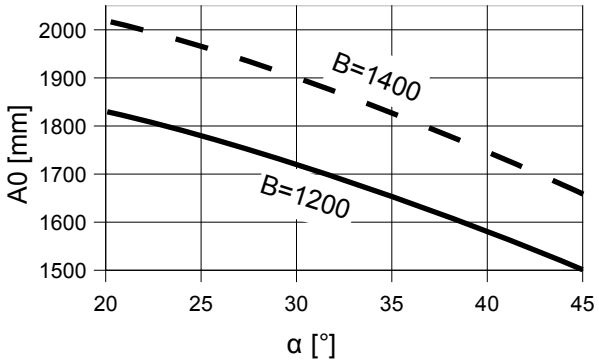
- station consists of three flat garland rollers ø133 with bearing 6306 (page 22)
- rollers are connected by forged loops and hooks which are parts of the rollers
- station is suspended by snap hooks

Belt width	Drawing no.	Dimensions [mm]			Weight [kg]
		L	L1	L2	
1200	3-22064-15611	465	465	567	38,0
1400	3-22064-16611	530	530	632	42,0

Garland stations are delivered on wooden pallets 1200x800 mm.

Surface finish – possible solutions

1) without coating
2) synthetic basic coating
3) polyester powder coating

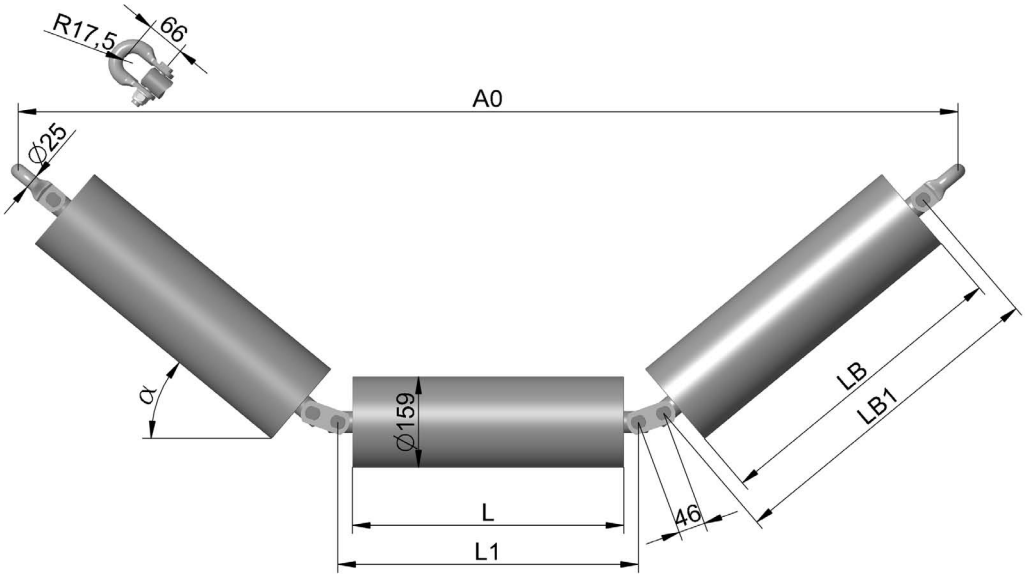


Ordering example

Name, size, drawing number, quantity (pcs)

Garland station GOHZ B1200, 3-22064-15611, 100 pieces

Manufacturer reserves the right to make changes without notice.



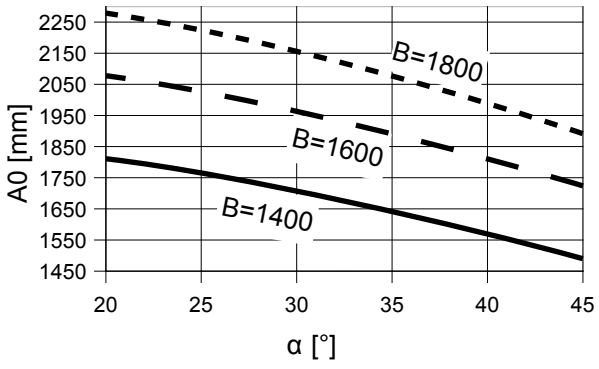
- station consists of three flat garland rollers ø159 with bearing 6308 (page 24)
- rollers are connected by slats and pins
- station is suspended by forged shackles

Belt width	Drawing no.	Dimensions [mm]				Weight [kg]
		L	L1	LB	LB1	
1400	3-22474-16601	465	515	530	580	65,0
1600	3-22474-17614	600	650	600	650	74,0
1800	3-22474-18614	670	720	670	720	79,7

Garland stations are delivered on wooden pallets 1200x800 mm.

Surface finish – possible solutions

1) without coating
2) synthetic basic coating
3) polyester powder coating

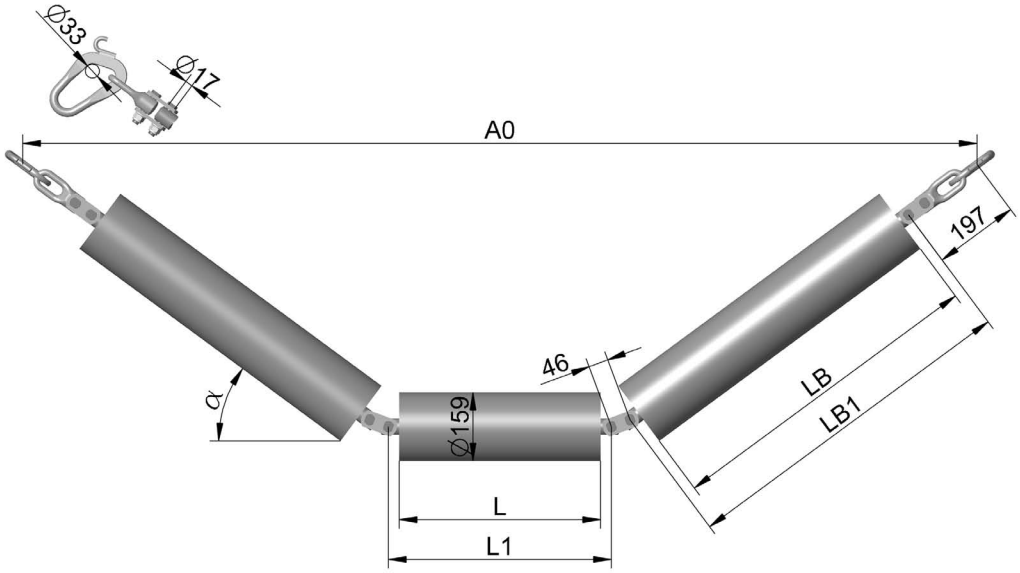


Ordering example

Name, size, drawing number, quantity (pcs)

Garland station GLZ B1600, 3-22474-17614, 100 pieces

Manufacturer reserves the right to make changes without notice.



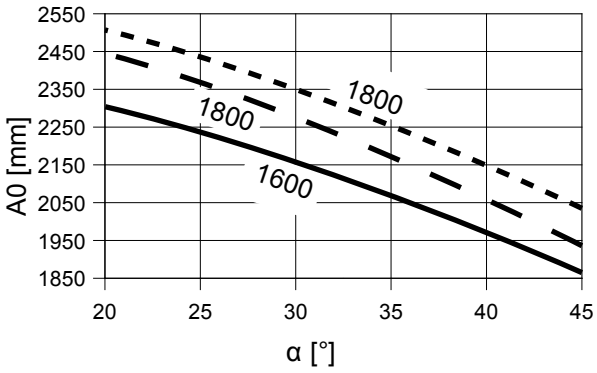
- station consists of three flat garland rollers ø159 with bearing 6308 (page 24)
- rollers are connected by slats and pins
- station is suspended by snap hooks

Belt width	Drawing no.	Dimensions [mm]				Weight [kg]
		L	L1	LB	LB1	
1600	3-22474-17613	600	650	600	650	76,6
1800	3-22474-18608	465	515	750	800	81,0
1800	3-22474-18623	670	720	670	720	82,3

Garland stations are delivered on wooden pallets 1200x800 mm.

Surface finish – possible solutions

1) without coating
2) synthetic basic coating
3) polyester powder coating

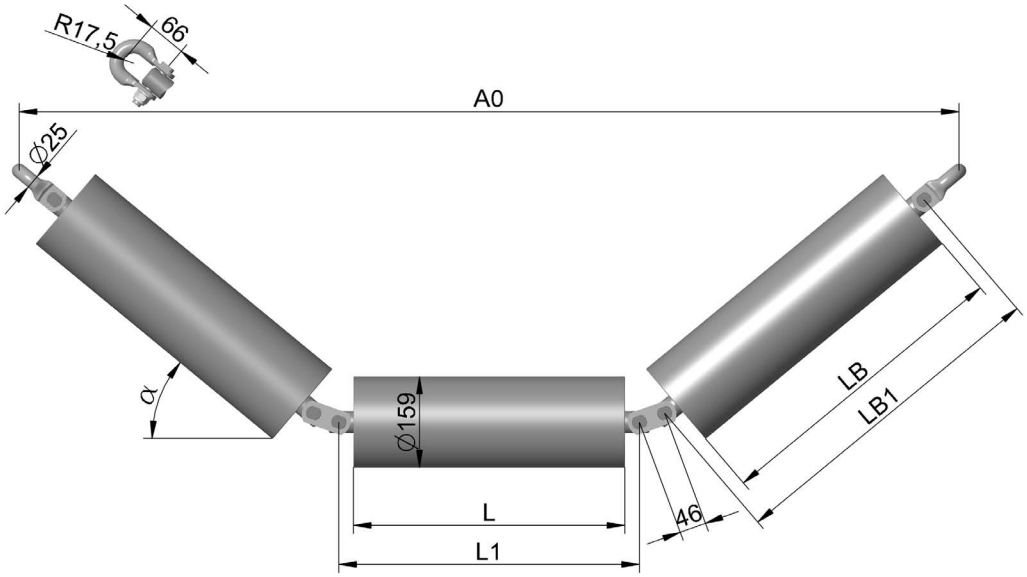


Ordering example

Name, size, drawing number, quantity (pcs)

Garland station GLZ B1600, 3-22474-17613,100 pieces

Manufacturer reserves the right to make changes without notice.



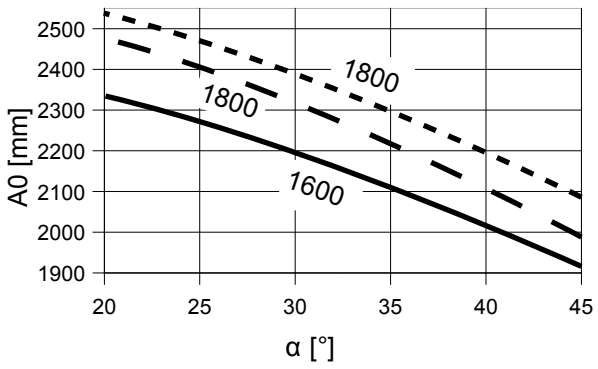
- station consists of three flat garland rollers ø159 with bearing 6308 (page 24)
- rollers are connected by forged loops and hooks which are parts of the rollers
- station is suspended by snap hooks

Belt width	Drawing no.	Dimensions [mm]				Weight [kg]
		L	L1	LB	LB1	
1600	3-22074-17611	600	754	600	730	77,0
1800	3-22074-18606	465	619	750	880	81,6
1800	3-22074-18611	670	824	670	800	83,0

Garland stations are delivered on wooden pallets 1200x800 mm.

Surface finish – possible solutions

1) without coating
2) synthetic basic coating
3) polyester powder coating

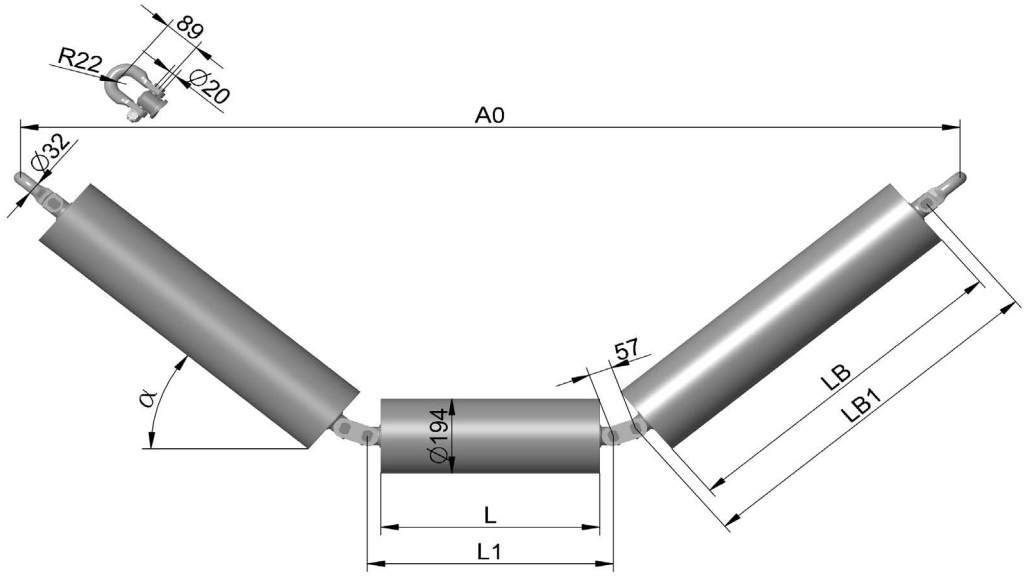


Ordering example

Name, size, drawing number, quantity (pcs)

Garland station GOHZ B1600, 3-22074-17611, 100 pieces

Manufacturer reserves the right to make changes without notice.



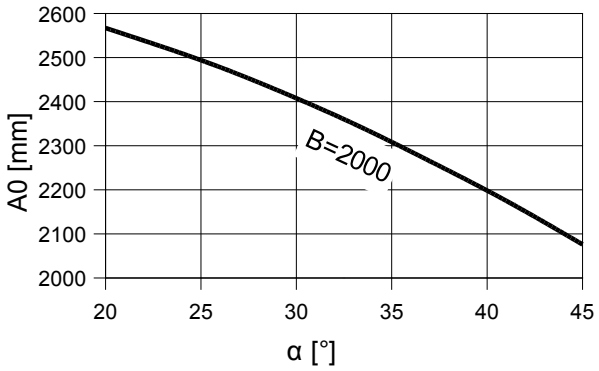
- station consists of three flat garland rollers ø194 with bearing 6310 (page 23), or 6312 (page 26)
- rollers are connected by slats and pins
- station is suspended by forged shackles

Belt width	Drawing no.	Bearing	Dimensions [mm]				Weight [kg]
			L	L1	LB	LB1	
2000	1-22484-19603	6310	530	590	850	910	141
2000	1-22484-19614	6312	530	590	850	910	145

Garland stations are delivered on wooden pallets 1200x800 mm.

Surface finish – possible solutions

1) without coating
2) synthetic basic coating
3) polyester powder coating

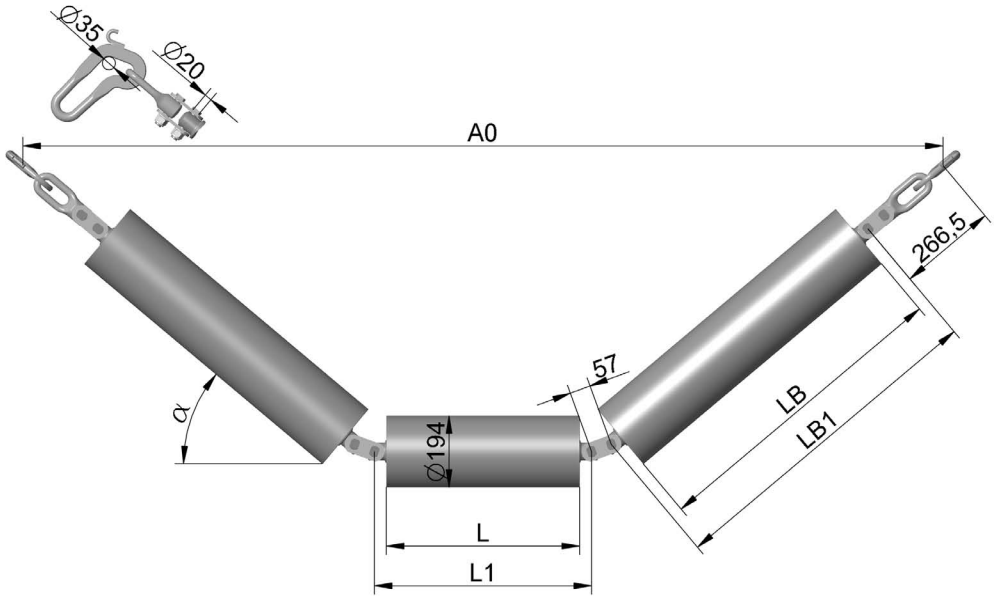


Ordering example

Name, size, drawing number, quantity (pcs)

Garland station GLT B2000, 1-22484-19603, 100 pieces

Manufacturer reserves the right to make changes without notice.



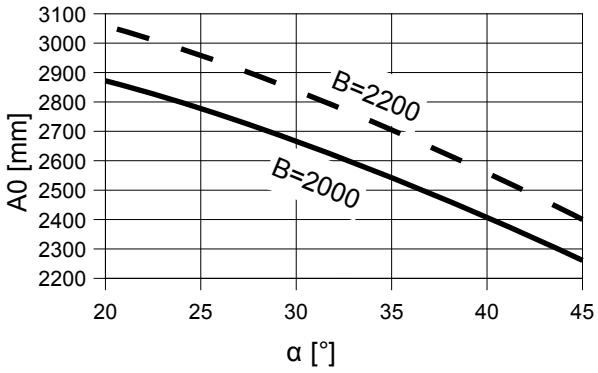
- station consists of three flat garland rollers ø194 with bearing 6312 (page 26)
- rollers are connected by slats and pins
- station is suspended by snap hooks

Belt width	Drawing no.	Dimensions [mm]				Weight [kg]
		L	L1	LB	LB1	
2000	1-22484-19613	530	590	850	910	151
2200	3-22484-10713	530	590	950	1010	160

Garland stations are delivered on wooden pallets 1200x800 mm.

Surface finish – possible solutions

1) without coating
2) synthetic basic coating
3) polyester powder coating

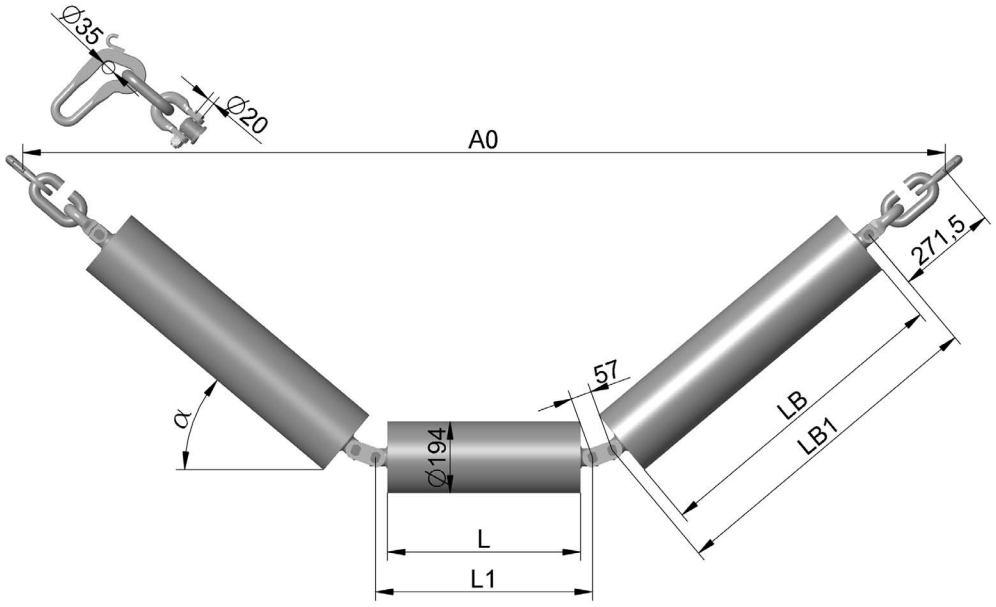


Ordering example

Name, size, drawing number, quantity (pcs)

Garland station GLZ B2000, 1-22484-19613, 100 pieces

Manufacturer reserves the right to make changes without notice.



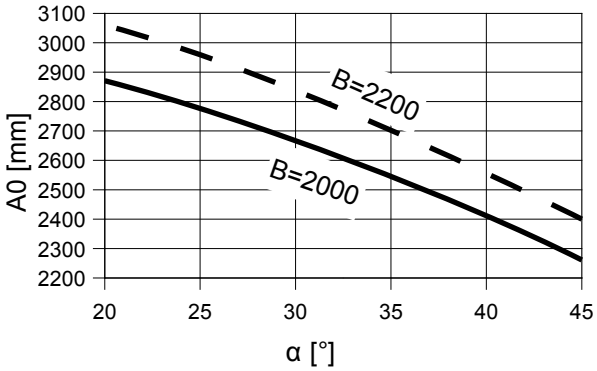
- station consists of three flat garland rollers ø194 with bearing 6312 (page 26)
- rollers are connected by slats and pins
- station is suspended by snap hooks

Belt width	Drawing no.	Dimensions [mm]				Weight [kg]
		L	L1	LB	LB1	
2000	1-22484-19612	530	590	850	910	153
2200	3-22484-10712	530	590	950	1010	162

Garland stations are delivered on wooden pallets 1200x800 mm.

Surface finish – possible solutions

1) without coating
2) synthetic basic coating
3) polyester powder coating

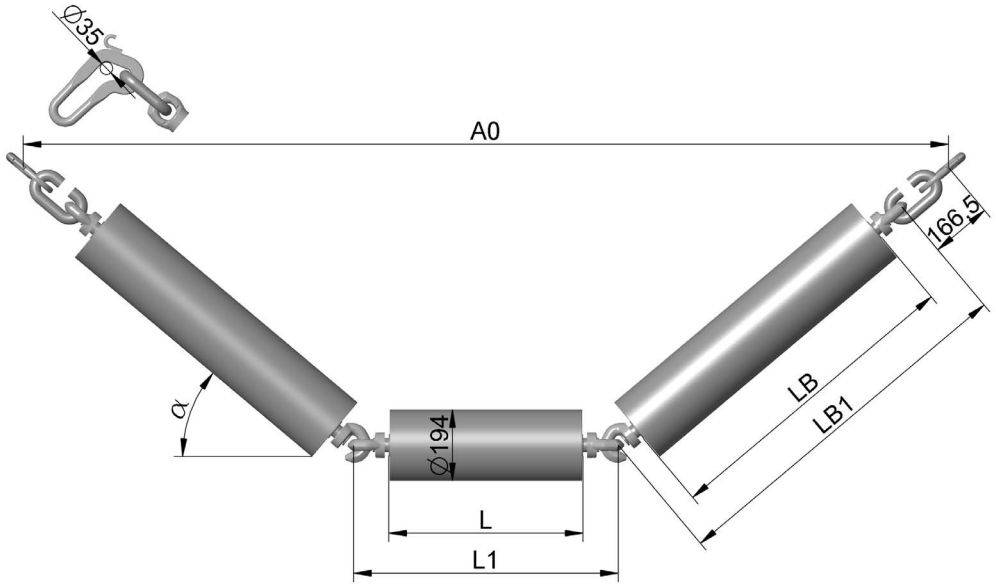


Ordering example

Name, size, drawing number, quantity (pcs)

Garland station GLTZ B2000, 1-22484-19612, 100 pieces

Manufacturer reserves the right to make changes without notice.



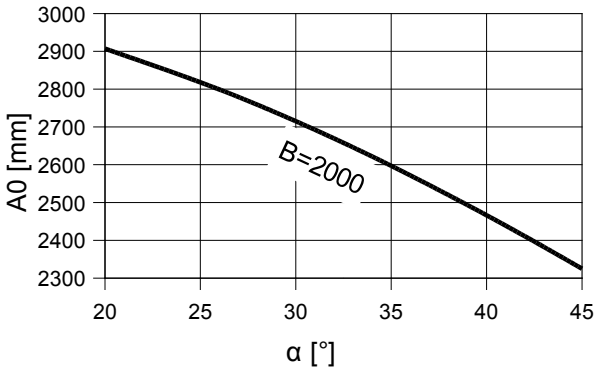
- station consists of three flat garland rollers ø194 with bearing 6312 (page 26)
- rollers are connected by forged loops and hooks which are parts of the rollers
- station is suspended by snap hooks

Belt width	Drawing no.	Dimensions [mm]				Weight [kg]
		L	L1	LB	LB1	
2000	1-22084-19611	530	722	850	1010	150

Garland stations are delivered on wooden pallets 1200x800 mm.

Surface finish – possible solutions

1) without coating
2) synthetic basic coating
3) polyester powder coating



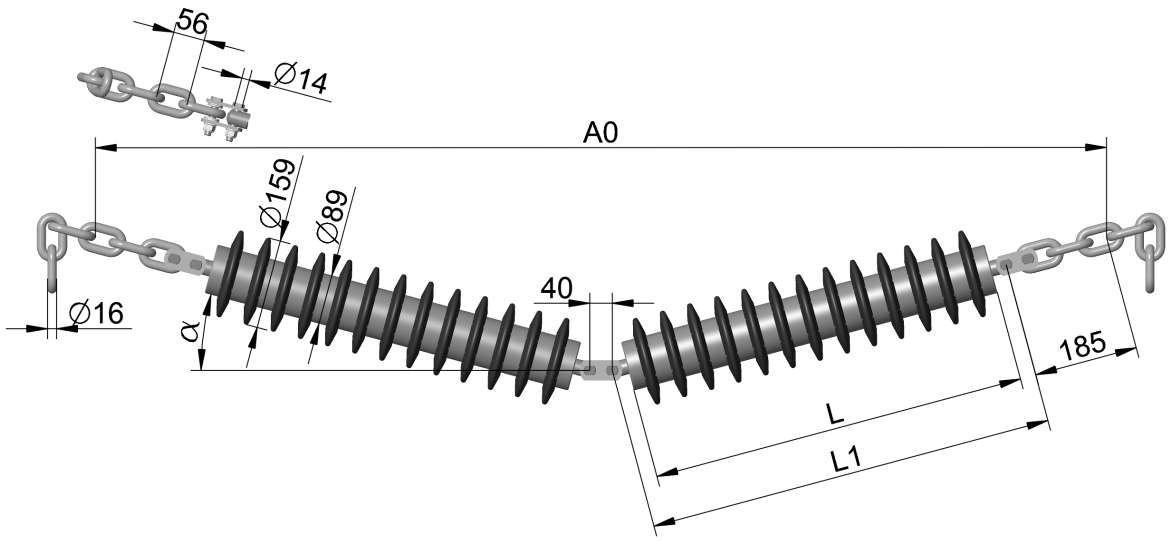
Ordering example

Name, size, drawing number, quantity (pcs)

Garland station GOHZ B2000, 1-22084-19611, 100 pieces

Manufacturer reserves the right to make changes without notice.

Bottom garland stations



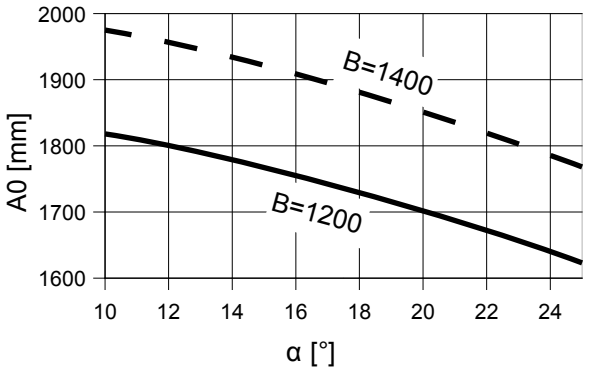
- station consists of two disc garland rollers ø159/89 with bearing 6306 (page 53)
- rollers are connected by slats and pins
- station is suspended by chains

Belt width	Drawing no.	Dimensions [mm]		Weight [kg]
		L	L1	
1200	3-22574-15611	670	726	37,3
1400	3-22574-16609	750	806	40,7

Garland station is delivered unassembled as single rollers including suspending chains and slats on wooden pallets 1200x800 mm. Connection accessories (pins, cotter pins, nuts, washers) are delivered simultaneously in a separate box.
Assembly of the garland is done on site.

Surface finish – possible solutions

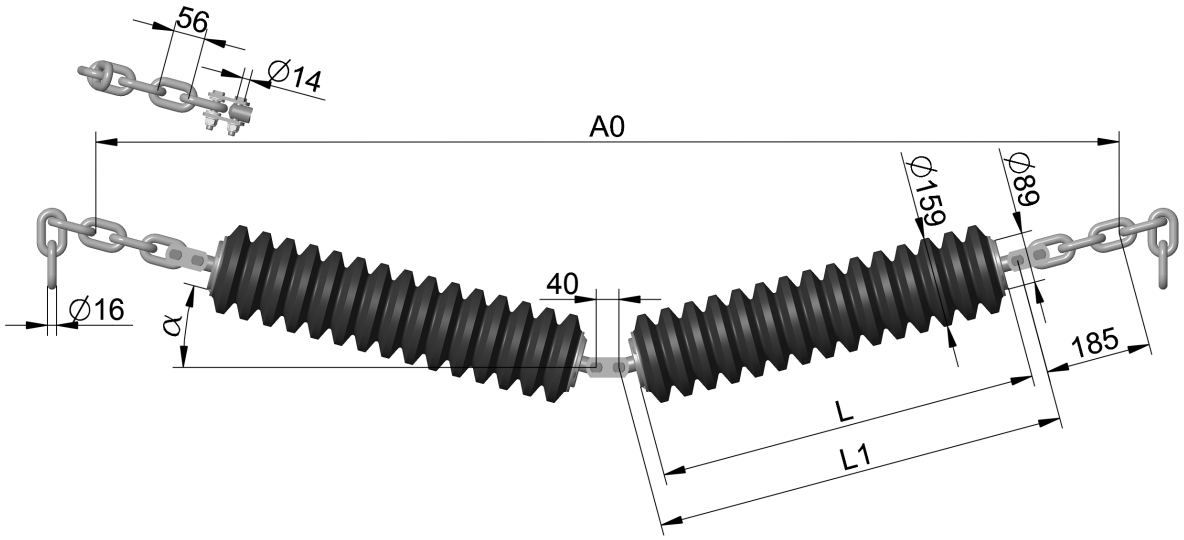
1) without coating
2) synthetic basic coating
3) polyester powder coating



Ordering example

Name, size, drawing number, quantity (pcs)
Bottom garland station GLRD B1200, 3-22574-15611, 50 pieces

Manufacturer reserves the right to make changes without notice.



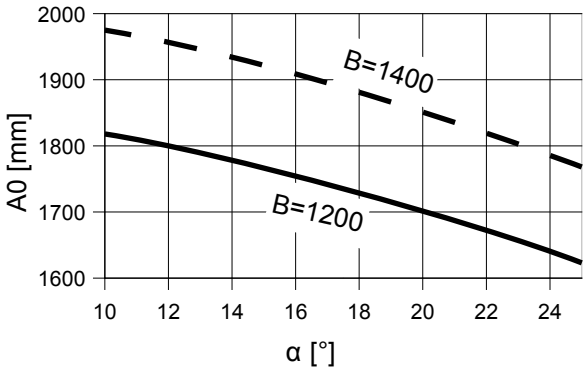
- station consists of two corrugated garland rollers ø159/89 with bearing 6306
- rollers are connected by slats and pins
- station is suspended by chains

Belt width	Drawing no.	Dimensions [mm]		Weight [kg]
		L	L1	
1200	3-22574-15610	670	726	52,1
1400	3-22574-16610	750	806	57,1

Garland station is delivered unassembled as single rollers including suspending chains and slats on wooden pallets 1200x800 mm. Connection accessories (pins, cotter pins, nuts, washers) are delivered simultaneously in a separate box.
Assembly of the garland is done on site.

Surface finish

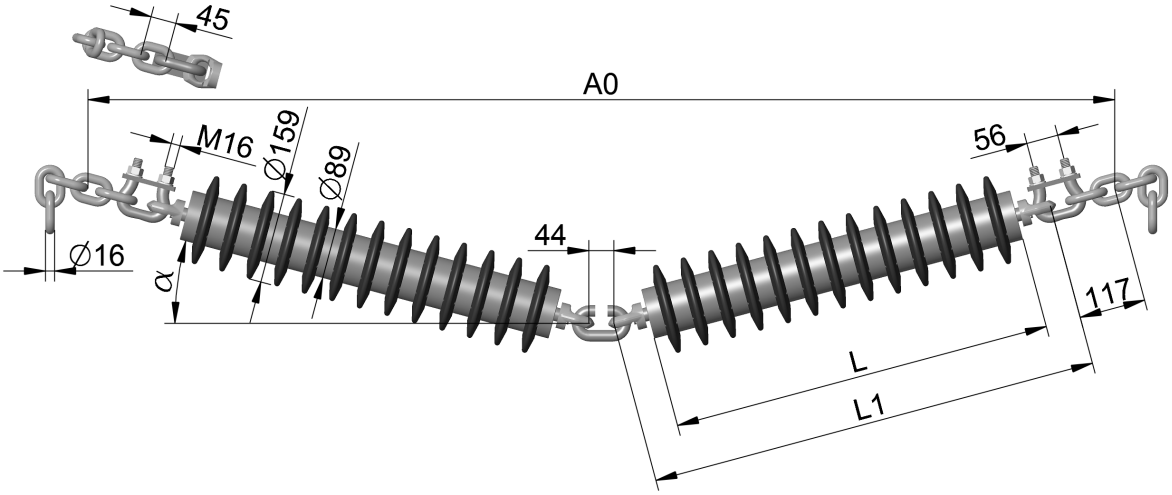
anti-corrosive primer synthetic coating



Ordering example

Name, size, drawing number, quantity (pcs)
Bottom garland station GLRV B1200, 3-22574-15610, 50 pieces

Manufacturer reserves the right to make changes without notice.



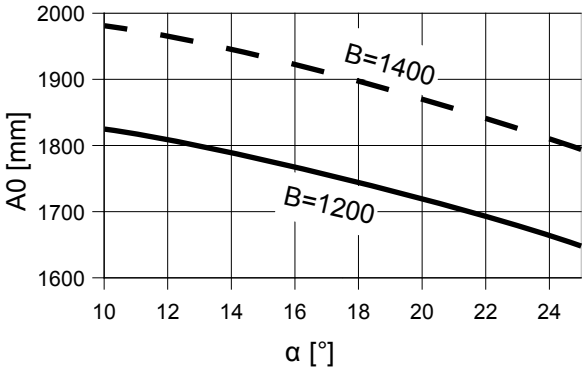
- station consists of two disc garland rollers ø159/89 with bearing 6306 (page 53)
- rollers are connected by loops and „C“ suspensions
- station is suspended by chains

Belt width	Drawing no.	Dimensions [mm]		Weight [kg]
		L	L1	
1200	3-22374-15611	670	792	41,2
1400	3-22374-16611	750	872	48,6

Garland station is delivered unassembled as single rollers including suspending chains on wooden pallets 1200x800 mm. Connection accessories („C“ suspensions) are delivered simultaneously in a separate box.
Assembly of the garland is done on site.

Surface finish – possible solutions

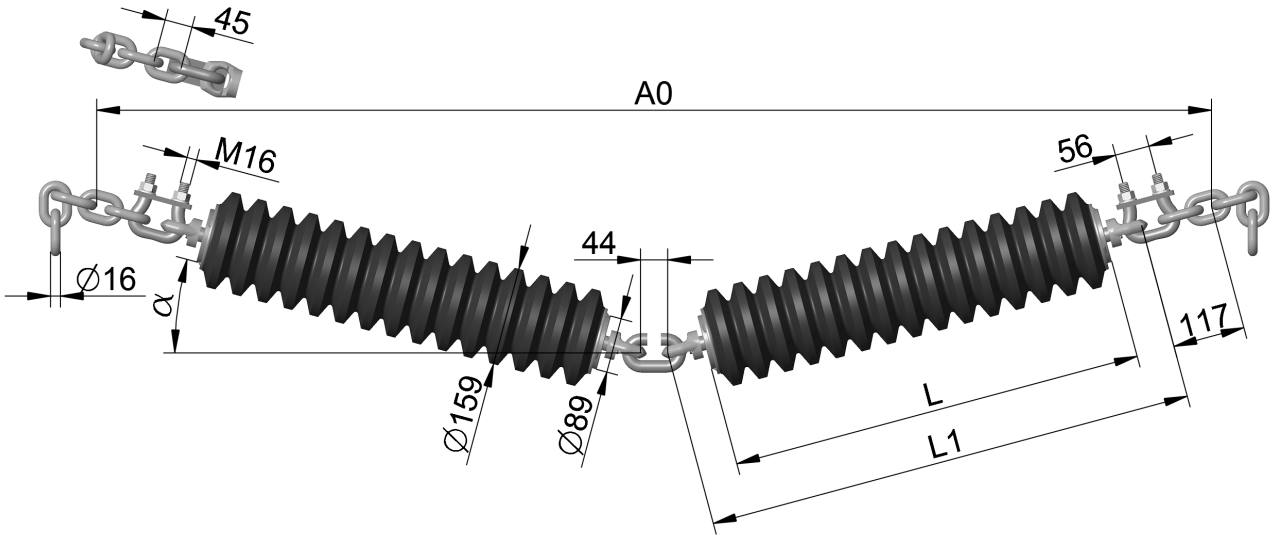
1) without coating
2) synthetic basic coating
3) polyester powder coating



Ordering example

Name, size, drawing number, quantity (pcs)
Bottom garland station GORD B1200, 3-22374-15611, 50 pieces

Manufacturer reserves the right to make changes without notice.



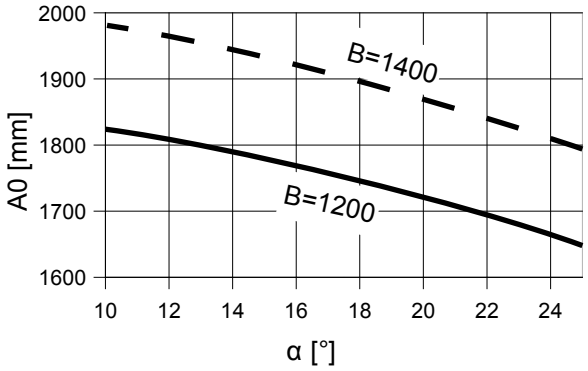
- station consists of two corrugated garland rollers ø159/89 with bearing 6306
- rollers are connected by loops and „C“ suspensions
- station is suspended by chains

Belt width	Drawing no.	Dimensions [mm]		Weight [kg]
		L	L1	
1200	3-22374-15610	670	792	54,4
1400	3-22374-16610	750	872	58,6

Garland station is delivered unassembled as single rollers including suspending chains on wooden pallets 1200x800 mm. Connection accessories („C“ suspensions) are delivered simultaneously in a separate box.
Assembly of the garland is done on site.

Surface finish

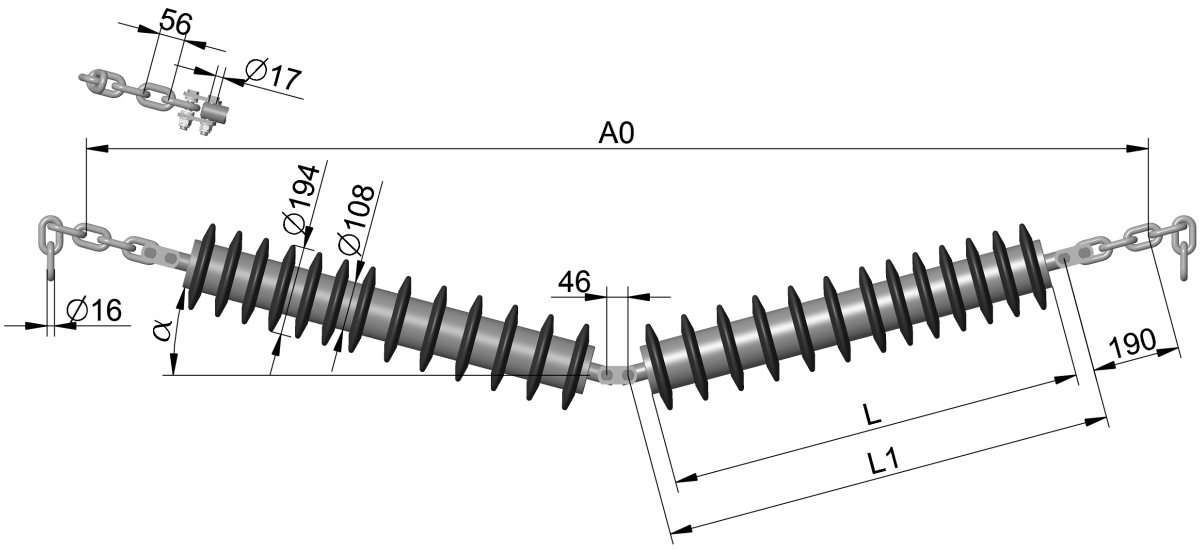
anti-corrosive primer synthetic coating



Ordering example

Name, size, drawing number, quantity (pcs)
Bottom garland station GORV B1200, 3-22374-15610, 50 pieces

Manufacturer reserves the right to make changes without notice.



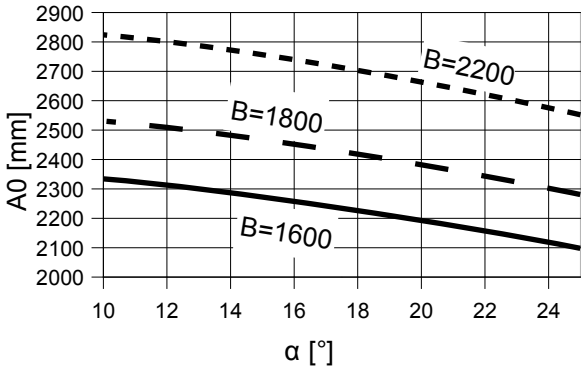
- station consists of two disc garland rollers ø194/108 with bearing 6308 (page 54)
- rollers are connected by slats and pins
- station is suspended by chains

Belt width	Drawing no.	Dimensions [mm]		Weight [kg]
		L	L1	
1600	3-22584-17609	900	980	77,6
1800	1-22584-18609	1000	1080	90,2
2200	3-22584-10716	1150	1230	100,4

Garland station is delivered unassembled as single rollers including suspending chains and slats on wooden pallets 1200x800 mm. Connection accessories (pins, cotter pins, nuts, washers) are delivered simultaneously in a separate box.
Assembly of the garland is done on site.

Surface finish – possible solutions

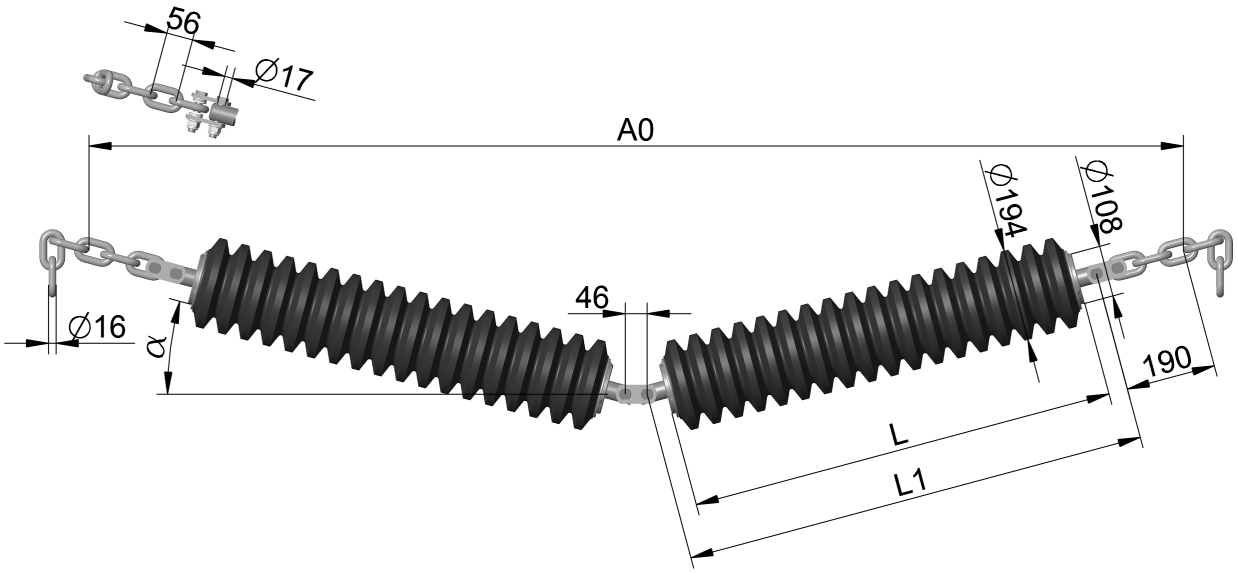
1) without coating
2) synthetic basic coating
3) polyester powder coating



Ordering example

Name, size, drawing number, quantity (pcs)
Bottom garland station GLRD B1600, 3-22584-17609, 50 pieces

Manufacturer reserves the right to make changes without notice.



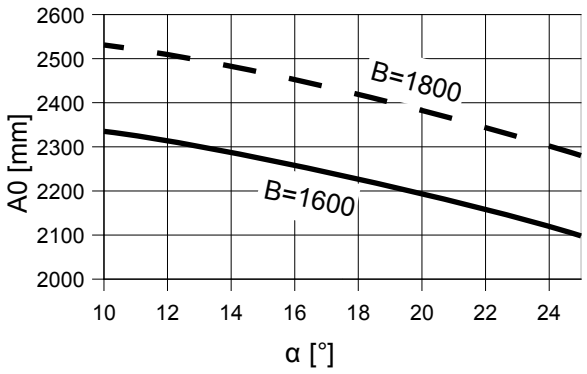
- station consists of two corrugated garland rollers ø194/108 with bearing 6308 (page 54)
- rollers are connected by slats and pins
- station is suspended by chains

Belt width	Drawing no.	Dimensions [mm]		Weight [kg]
		L	L1	
1600	3-22584-17613	900	980	104,6
1800	1-22584-18610	1000	1080	114,8

Garland station is delivered unassembled as single rollers including suspending chains and slats on wooden pallets 1200x800 mm. Connection accessories (pins, cotter pins, nuts, washers) are delivered simultaneously in a separate box.
Assembly of the garland is done on site.

Surface finish

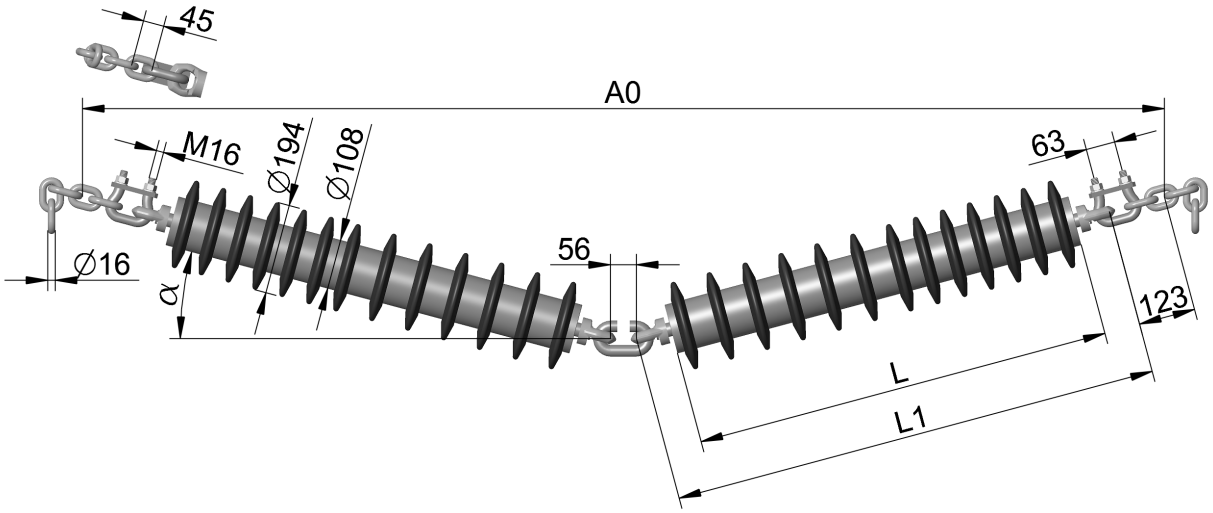
anti-corrosive primer synthetic coating



Ordering example

Name, size, drawing number, quantity (pcs)
Bottom garland station GLRV B1600, 3-22584-17613, 50 pieces

Manufacturer reserves the right to make changes without notice.



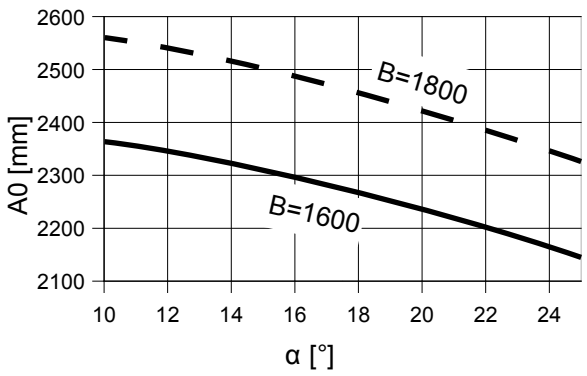
- station consists of two disc garland rollers ø194/108 with bearing 6308 (page 54)
- rollers are connected by loops and „C“ suspensions
- station is suspended by chains

Belt width	Drawing no.	Dimensions [mm]		Weight [kg]
		L	L1	
1600	3-22384-17612	900	1054	70,3
1800	1-22384-18611	1000	1154	78,9

Garland station is delivered unassembled as single rollers including suspending chains on wooden pallets 1200x800 mm. Connection accessories („C“ suspensions) are delivered simultaneously in a separate box.
Assembly of the garland is done on site.

Surface finish – possible solutions

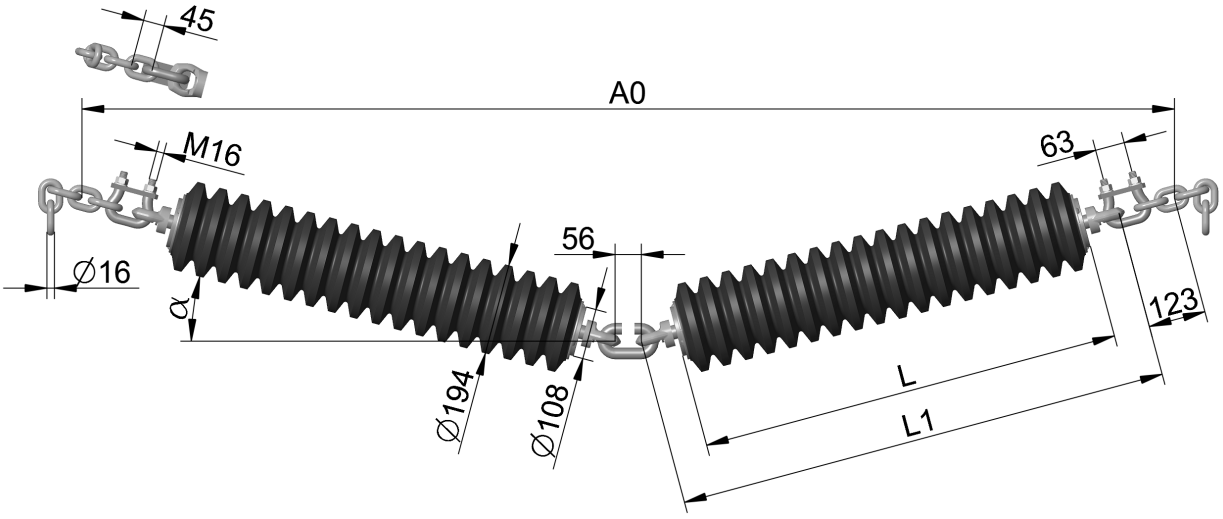
1) without coating
2) synthetic basic coating
3) polyester powder coating



Ordering example

Name, size, drawing number, quantity (pcs)
Bottom garland station GORD B1600, 3-22384-17612, 50 pieces

Manufacturer reserves the right to make changes without notice.



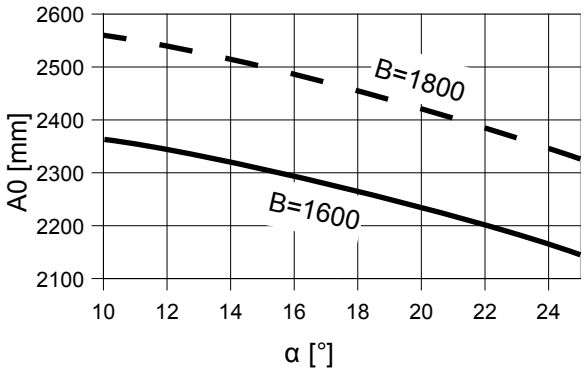
- station consists of two corrugated garland rollers ø194/108 with bearing 6308 (page 55)
- rollers are connected by loops and „C“ suspensions
- station is suspended by chains

Belt width	Drawing no.	Dimensions [mm]		Weight [kg]
		L	L1	
1600	3-22384-17610	900	1054	98,8
1800	3-22384-18610	1000	1154	108,5

Garland station is delivered unassembled as single rollers including suspending chains on wooden pallets 1200x800 mm. Connection accessories („C“ suspensions) are delivered simultaneously in a separate box. Assembly of the garland is done on site.

Surface finish

anti-corrosive primer synthetic coating

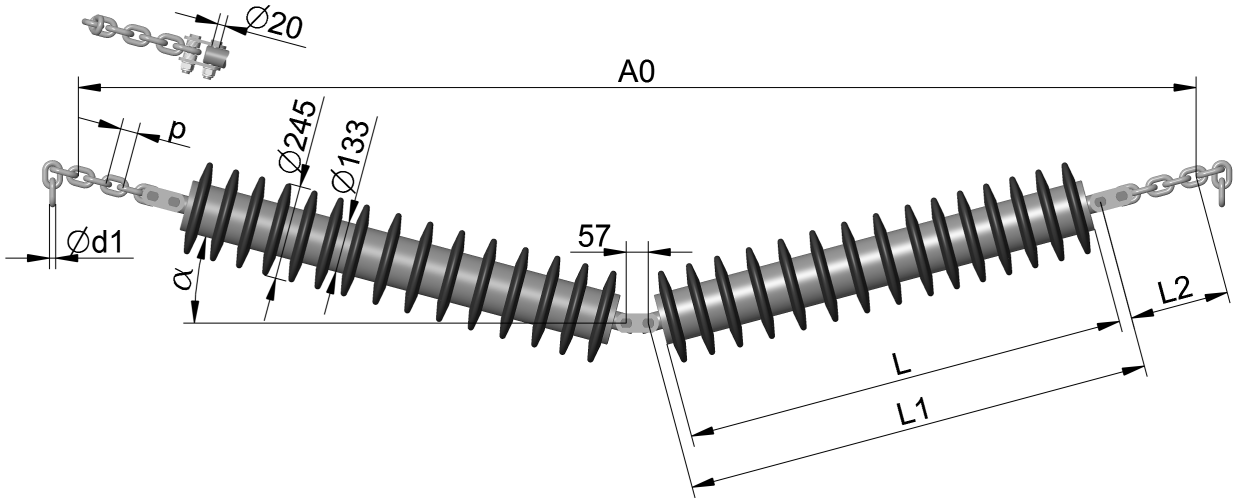


Ordering example

Name, size, drawing number, quantity (pcs)

Bottom garland station GORV B1600, 3-22384-17610, 50 pieces

Manufacturer reserves the right to make changes without notice.



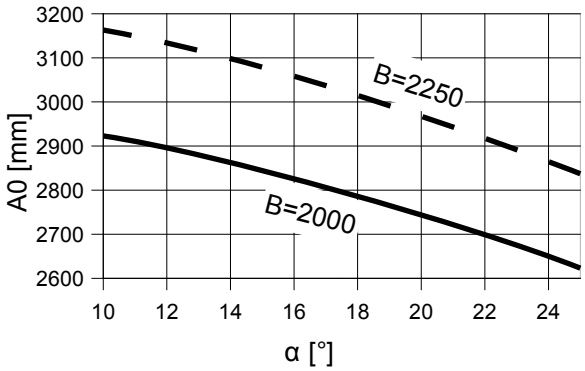
- station consists of two disc garland roller ø245/133 with bearing 6310 (page 56)
- rollers are connected by slats and pins
- station is suspended by chains

Belt width	Drawing no.	Dimensions [mm]				Weight [kg]
		L	L1	L2	d1×p	
2000	3-22594-19609	1150	1210	256	16×45	150,2
2250	1-22594-11709	1250	1310	279	18×50	162,8

Garland station is delivered unassembled as single rollers including suspending chains and slats on wooden pallets 1200x800 mm. Connection accessories (pins, cotter pins, nuts, washers) are delivered simultaneously in a separate box.
Assembly of the garland is done on site.

Surface finish – possible solutions

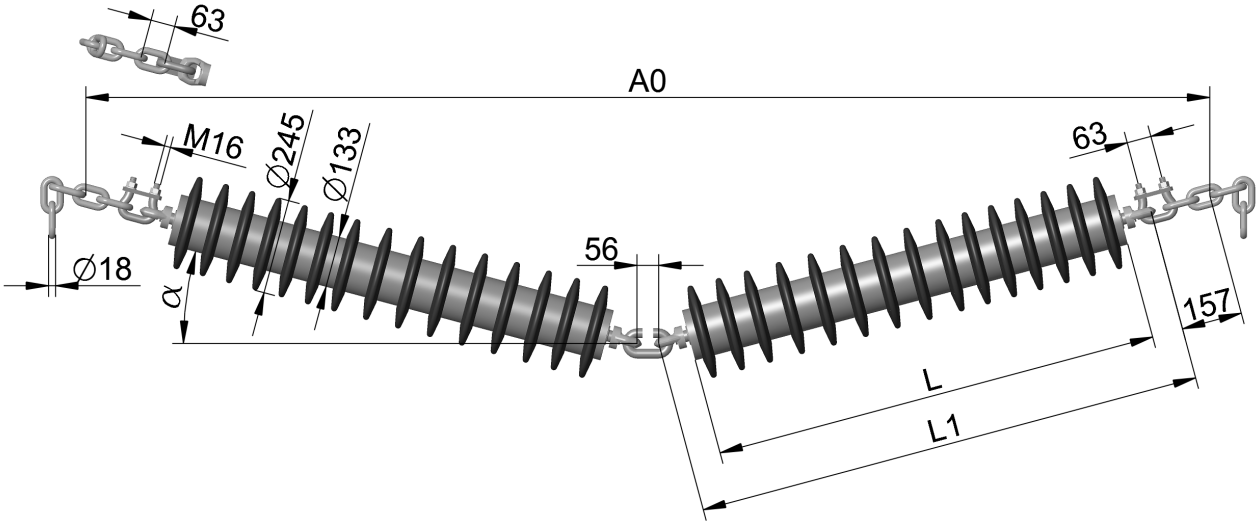
1) without coating
2) synthetic basic coating
3) polyesther powder coating



Ordering example

Name, size, drawing number, quantity (pcs)
Bottom garland station GLRD B2000, 3-22594-19609, 50 pieces

Manufacturer reserves the right to make changes without notice.

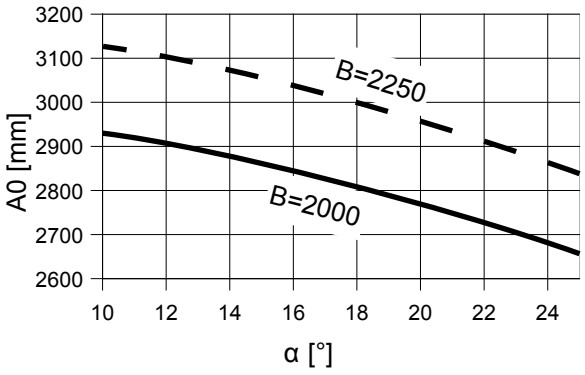


- station consists of two disc garland rollers ø245/133 with bearing 6310 (page 56)
- rollers are connected by loops and „C“ suspensions
- station is suspended by chains

Belt width	Drawing no.	Dimensions [mm]		Weight [kg]
		L	L1	
2000	3-22394-19611	1157	1309	154,1
2250	3-22394-11711	1257	1409	166,9

Garland station is delivered unassembled as single rollers including suspending chains on wooden pallets 1200x800 mm. Connection accessories („C“ suspensions) are delivered simultaneously in a separate box.
Assembly of the garland is done on site.

Surface finish – possible solutions:
1) without coating
2) synthetic basic coating
3) polyester powder coating



Ordering example
Name, size, drawing number, quantity (pcs)
Bottom garland station GORD B2000, 3-22394-19611, 50 pieces

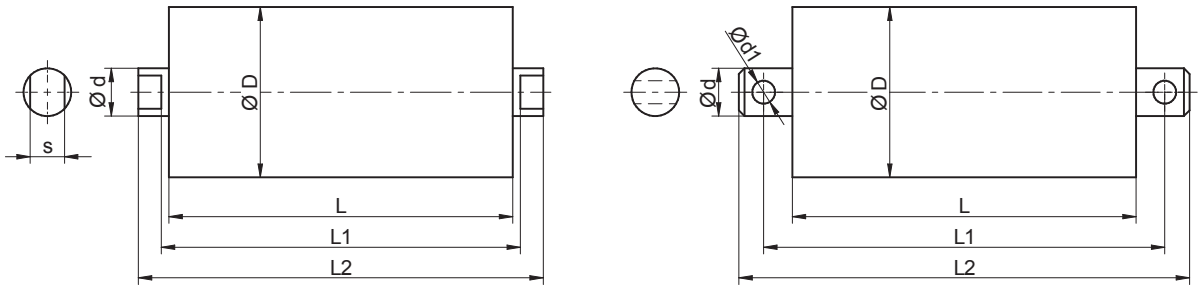
Manufacturer reserves the right to make changes without notice.

transroll

Date	
Company	
Contact person	
Address	
Telephone	
e-mail	

ROLLERS FOR BELT CONVEYOR

DEMAND SHEET



Rollers' location in the conveyor	Upper (carrying) branch	Lower (returning) branch	Impact places	
Roller parameters – obligatory data				
Number of pieces	pc			
Roller diameter D	mm			
Roller bearings – size	—			
Roller length L	mm			
Mounting length L1	mm			
Roller axle length L2	mm			
Roller axle end diameter d	mm			
Axle end milling down width s	mm			
Axle end hole diameter d1	mm			
Tube wall thickness	mm			
Working temperature range	°C			

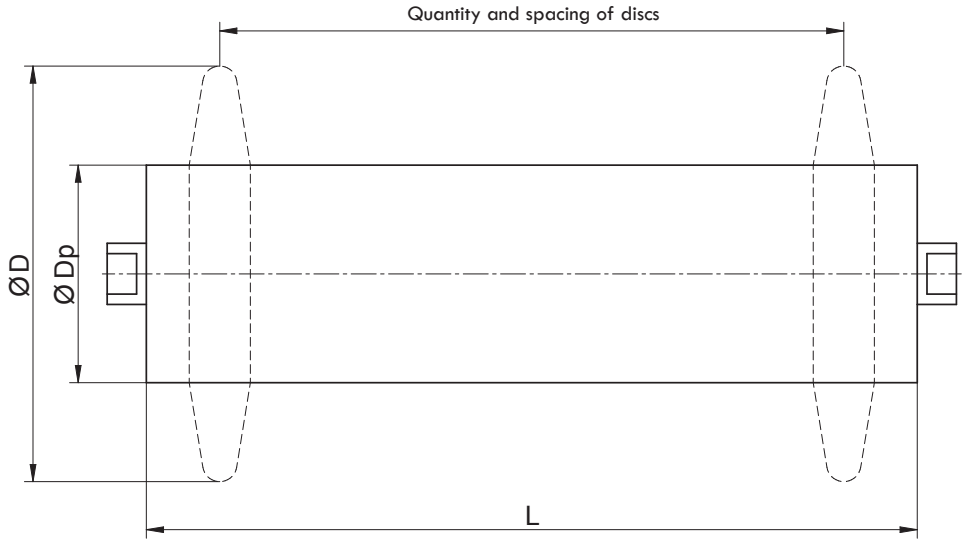
Working environment	☐ increased dustiness ☐ increased humidity	☐ abrasive ☐ chem. aggressive	other:

Conveyor parameters – non obligatory data

Transport capacity	t/h			
Conveyor velocity	m/s			
Belt width	mm			
Belt specific weight	kg/m^2			
Stands spacing	m			
Inclination angle of side rollers	°			
Transported material				
Density	t/m^3			
Lumpiness	mm			
Other requirements				

Completing information

Location of returning rollers' discs:



Different ending of rollers' axles, scheme:

Further detailed description:

Notes

Notes