

Conveying elements for Intralogistics





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Selection of Conveyor Roller

In the general chapter you will find information for selecting and dimensioning of roller.

A conveyor roller normally consists of the tube, shaft and bearing.

Basically the materials and the construction of the roller should be chosen with regard to the requirements.

Which dimension, weight and characteristic does the transported good have and which demands does the transportation facility have to cover?

Results:

- roller length
- tube and shaft dimension
- bearing
- shaft centre distance
- conveying speed
- roller component materials of the roller device groups
- selection of the drive element

The bearing, tube and shaft variations have to be selected in such a way that the weakest construction unit is suitable for the required load capacity.

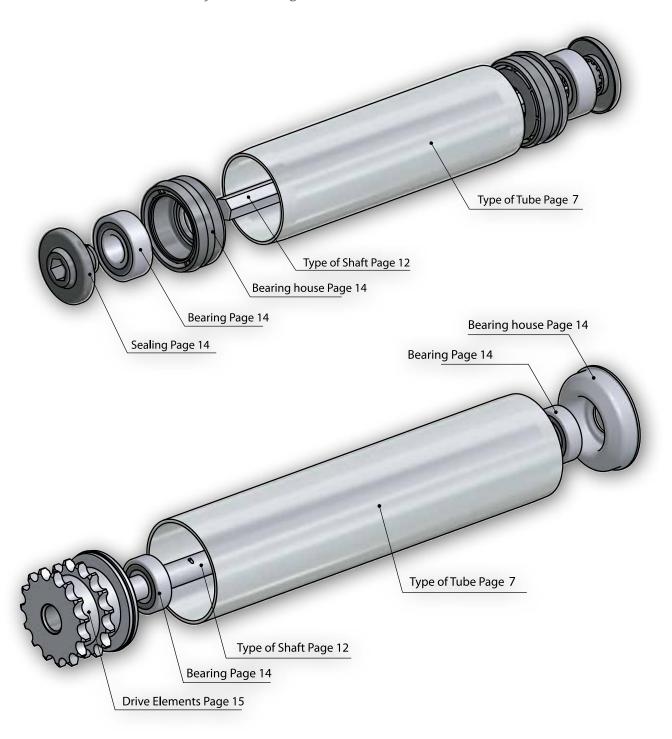
Even technical requirements like electrical discharging or the consideration of the environmental conditions such as temperature, air humidity, wetness etc. have to be considered for the configuration.



Selection of Conveyor Roller

The construction of a conveyor roller normally consists of the tube, shaft and bearing. For a driven roller you have to add the driving elements.

Further details can be obtained by the following information.





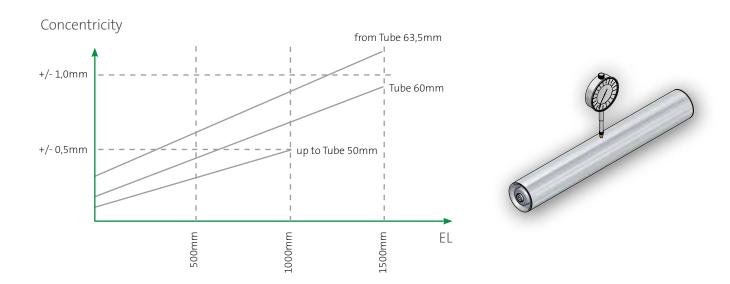
The construction of the transportation facility and the capacity of the tube affect the tube diameter (see end of cover page).

Steel Tubes: Conveyor roller tube EN 10 305-3 (DIN 2394) with limited tolerance

material S235JR (ST37)

Tube-Ø				Wall Thickness			
in mm	1mm	1,5mm	2mm	2,9mm	3mm	3,25mm	3,6mm
16	X						
20		X					
30	X	X					
32			X				
40		Χ	X		X		
50		X	X		X		
60			X		X		
63,5				X			
70			X	X			
80			X*		X		
88,9				Χ			
108						X	
133							X

Concentricity: The DIN only gives the tolerance for the wall thickness and the rectitude.



^{*} delivered only in dimension 79,5 x 1,75mm



Plastic Tubes: material – shock resistant special PVC

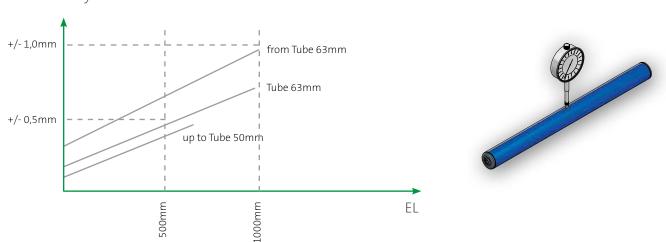
Two different colors are available ex stock

(RAL 5015 / blue – RAL 7032a / light grey).

Tube-Ø in mm		Wall Thickness					
in mm	1,5 mm	1,8 mm	2,3 mm	2,8 mm	3 mm	7 mm	
0	Χ						
0		X					
)			X				
				Χ			
					X		
						X	

Concentricity: The DIN only gives the tolerance for the wall thickness and the rectitude.

Concentricity

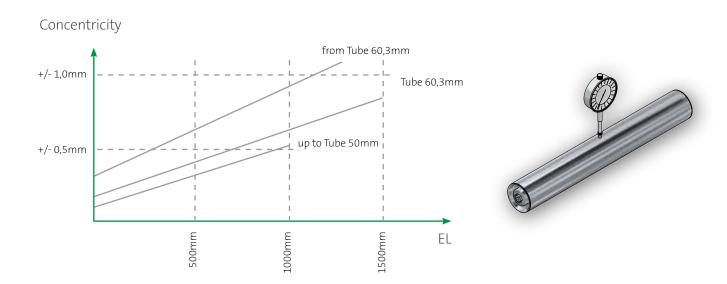




Stainless Steel Tubes: material 1.4301 (X5CrNi18-10 or AISI 304)

Tube-Ø			Wall Thi	ckness		
in mm	1mm	1,5mm	1 ,65mm	2mm	2,9mm	3mm
16	Χ					
0	X					
30	X	X				
10		X				
0		X		X		
0,3			Χ			
30				X		Χ
8,9					X	

Concentricity: The DIN only gives the tolerance for the wall thickness and the rectitude.





Rollex offers several types of surface treatments and coatings. Depending on the requirement you can choose between the following tube surface refinements:

Untreated: The roller tubes are not treated. They are designated with the code ST (Steel Tube),

N2 (Stainless Steel Tube), KB or KGH (Plastic Tube).

Galvanized: The galvanizing has a thickness of around 0,8µm. It is for corrosion protection,

but please note that this protection can be destroyed by mechanic and thermic influences. At this parts the tubes may start rusting. Galvanized tubes are marked with the code STI. Driven roller that have to be galvanized in total (incl. Drive

Element) have the code ST with the addition "galvanized in total".

PVC-Coating: The PVC-Coating will be made by air pressure. Rollex offers several different styles

and dimensions:

PVC 60° Shore silver grey:

Tube-Ø	PVC 2 mm	PVC 3 mm	PVC 5 mm
30 mm	Χ		
40 mm	Χ	X	X
50 mm	Χ	X	X
60 mm	Χ	X	X
80 mm	Χ	X	X
88,9 mm	Χ	X	X
108 mm		X	X

PVC 60° Shore anthracite - antistatic:

Tube-Ø	PVC 2 mm	PVC 3 mm	PVC 5 mm
50 mm	Χ	Χ	
60 mm	X	X	

PVC 88° Shore black:

Tube-Ø	PVC 2 mm	PVC 3 mm	PVC 5 mm
0 mm		X	
60 mm		X	X



Rubberizing: The tube will be coated with a black neoprene NBR-Rubber. This will be glued and

grinded the required thickness. Hardness is around 60° Shore and it is available

for all popular tube dimensions.

Tube 40 with 5mm coating can be deliverd with rubber sleeves (standard) or as

vulcanised coating

PU-Baytec Tubes can even be coated with a PU (Polyurethan). You can choose between PU

Coating: Baytec 73° Shore black and the more expensive, because more labor-intensive PU

nature, in different grades (70 – 90° Shore).

Epoxy Resin- Rollex steel roller wirh epoxy resin coating. In case of order please mention RAL

Coating: color code.

Nitrocarburisation: This means the enrichment of the tube surface layer with nitrogen and carbon by

thermochemical means. This causes a nitrided case containing a compound layer and a diffusion layer. It is a hardening method for surfaces, that means the depth

is only max. 0,2mm. The border zone only has a hardness of max. 540 HV1.

Description: Steel Tube Steel ST

Galvanized STI
PVC-coated STP2-5
Rubberized STG
PU-coated STPU
Epoxy resin coated STR
Nitrocarburized STH

Plastic Tube PVC shock-resistant blue RAL 5015 KB

PVC shock-resistant grey RAL 7030A KGH

Stainless Steel Tube Material 1.4301 N2



Types of Shaft

Material: Rollex uses machining steel DIN EN 10277-3 or EN 10278-h and stainless

steel material 1.4305.

Dimensions: The construction of the transportation facility and the capacity of the shaft affect

the shaft dimension (see end of cover page)

Shaft dimension in mm	Round	Hexagonical
5	Χ	
6	Χ	
8	Χ	
ASK 8		Χ
10	Χ	
ASK 11		Χ
12	Χ	
14	Χ	
15	Χ	
17	Χ	
20	Χ	
25	X	

Shaft variations: Rollex conveyor roller are available with different shaft versions. By this means

you can fit all requirements.

Description	AM	AAGM	AIGM	Aglatt	ASW	AFA
Shaft-Ø	EL.	- EL	EL		EL	
5				6		6
6	M 6 x 15			8		8
8	M 8 x 15		M 5 x 10	10		10
ASK 8						10
10	M 10 x 15	M 8 x 15	M 6 x 10	10	SW 8 x 10	10
ASK 11						10
12	M 12 x 15	M 10 x 15	M 8 x 10	10	SW 10 x 10	10
14	M 14 x 20	M 12 x 15	M 8 x 15 M 10 x 15	10	SW 12 x 10	10
15	M 14 x 20		M 8 x 15 M 10 x 15		SW 12 x 10	
17	M 16 x 20	M 12 x 15	M 10 x 15 M 12 x 18		SW 14 x 10	
20	M 20 x 25	M 16 x 20	M 10 x 15 M 12 x 18		SW 14/15 x 10 SW 14/15 x 13	
25		M 16 x 20	M 16 x 24		SW 18 x 10/13	



Types of Shaft

Material: Shaft slip on caps made of plastic are used for corrosion protection and reduces

noise.

Shaft-Ø					
8	SW 10 x 10 D=12 SW 14 x 10 D=16	SK 11 x 11 SK 11 x 11 FA	SK 11 x 17		
10	SW 14 x 10 D=16 SW 12 x 10 D=16				
12	SW 14 x 10 D=16				
14	SW 17 x 10 D=21				
20				SW 30 x 12 D = 36 available in plastic and sintered metal	



Bearing house

Rollex uses different bearings for the conveyor roller.

Thermoplastic synthetic material – Bearings made from PA, PP or PC, that make low noise. Steel bearings made from steel or galvanized steel (deep drawing sheet).

Bearing

Rollex uses different types of bearing that are choosen by the requirements.

Slide bearings: Thermoplastic synthetic material with slide bearing bush made of PA or POM.

For light weights and wet environments.

Ball Row: Thermoplastic synthetic material made of PP with steel- or stainless steel balls.

For light weights.

Conus ball bearing made of hardened steel.

For light and medium weights.

Precision ball bearing: Precision ball bearing light greased re DIN 625.

Available in different sealings like ZZ, RS or Z.

Series 608, 6000, 6001, 6003, 6004, 6005, 6204, 6202, 6205, 6303, bearing play C3.

Sealing

Thermoplastic synthetic material bearings are supplied either with a labyrinth packing or a plastic slide sealing that protects the rolling balls against pollution.



Conveyor roller can be driven different ways. The following is important for the selection of the drive:

- transport device
- transport weight
- transport speed
- drive concept (accumulation drive/permanent drive)
- length of the conveyor
- environmental conditions
- selection of the driving element

Available Types of drive:

be used.

Flat belt drive
 Conveyor roller are driven by a flat belt mounted below the roller.
 For this concept all conveyor roller with a precision ball bearing from the Rollex-Roller range can



Round belt drive

Round belt drives can be constructed in two different versions, either the torque is transmitted from roller to roller or by a so-called upright shaft below the roller. Versions please see page 46 in chapter 2.





Ripped-V-Belt Grooved Belt Drive

Conveyor roller are driven by a Ripped-V-Belt grooved belt, by the use of the roller with a PJ-profile (up to 500N) or with a PK-profile (up to 10.000N). The center distance tolerance should be between -1 and +1mm.







Ripped-V-Belt Grooved Belts

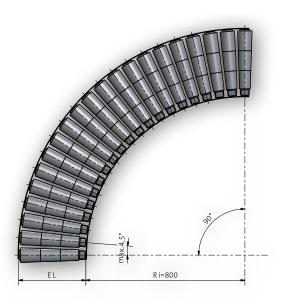
Center distance	Ripped-V-Belt Belt 2 or 3 ribs
55 mm	PJ 246
60 mm	PJ 256
68 mm	PJ 270
73 mm	PJ 282
75 mm	PJ 286
80 mm	PJ 290
90 mm	PJ 314
94 mm	PJ 316
100 mm	PJ 336
105 mm	PJ 346
120 mm	РЈ 376

Ripped-V-Belt Drive D = 43 mm

Center distance	Ripped-V-Belt Belt 6 or 8 ribs	
145 mm	PK 541	
160 mm	PK 573	
169 mm	PK 589	
180 mm	PK 611	
200 mm	PK 651	
225 mm	PK 701	
250 mm	PK 751	
300 mm	PK 801	

Ripped-V-Belt Drive D = 80 mm

The Ripped-V-Belt grooved belt with 2 ribs can even be used for curved conveyor lines. Please note that the angle between the conical roller should be max. 4,5°.





Tooth Belt Drive: Conveyor roller are manufactured with a tooth belt drive, using a Poly

Chain-toothing or an HTD-toothing. The center distance tolerance should be

between 0 to - 0,3mm.

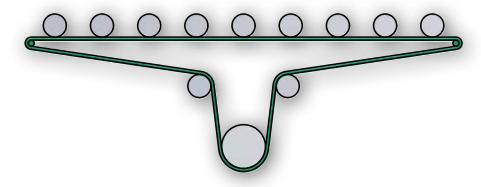
Chain Drive: Conveyor roller are manufactured with a chain sprocket, depending on the drive

concept (tangential drive or drive from roller to roller).

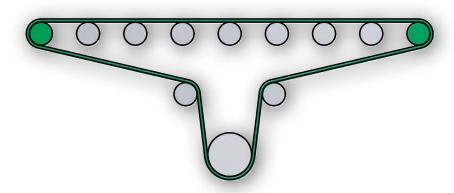
Tangential Drive: Using the tangential drive only one chain is required for driving the complete roller

track. Please note that for this concept only one tooth of the sprocket is working.

The chain is guided by a chain slide bar.



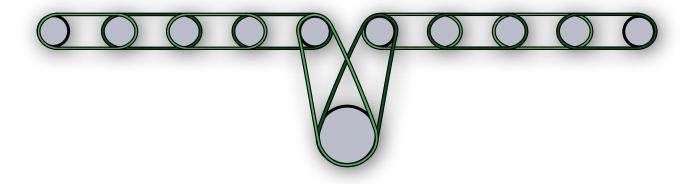
If the tangential chain is installed above the roller the last roller have to get a normal tooth profile because the bolt tooth form for tangential drive can not be used for chain enlacement.





Drive roller to roller: The drive roller to roller is used with a double chain sprocket . The tolerance of the

shaft center should be 0 to + 0,3 mm.



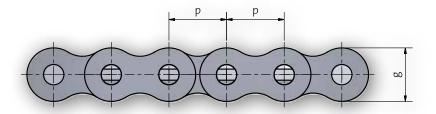
Please note the **centre to centre distances** for the different chains.

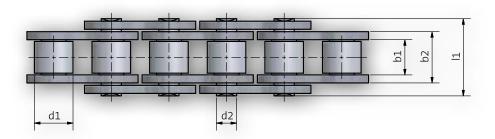
Chain left	3/8 x 7/32" z = 12	1/2 x 5/16" z = 14	5/8 x 3/8" z = 15	3/4 x 7/16" z = 13
22	47,6			
24	57,2			
26	66,7	76,2		123,8
28	76,2	88,9	103,2	142,9
30	85,8	101,6	119,1	161,9
32	95,3	114,3	134,9	181,0
34	104,8	127,0	150,8	200,0
36	114,3	139,7	166,7	219,1
38	123,9	152,4	182,6	238,1
40	133,4	165,1	198,5	257,2
42	142,9	177,8	214,3	276,2
44	152,4	190,5	230,2	295,3
46		203,2	246,1	314,3
48		215,9	261,9	333,4
50		228,6	277,8	352,4
52		241,3	293,7	371,5
54		254,0	309,6	390,5
56		266,7	325,4	409,6
58		279,4	314,3	428,6
60		292,1	357,2	447,7

Centre to centre distances in mm of the driving element.



For dimensioning driven transport facilities please watch the break load of the chains. Roller Chains DIN 8187





										Breal	k Load
DIN/ISO Chain-No.	Trade Name p x b ₁	Р	b ₁	b ₂	d ₁	d ₂	k	g	k	L ₁	N
			min.	max.	max.	max.	min.	max.	max.	min.	min.
06 B-1	3/8" x 7/32"	9,525	5,72	8,53	6,35	3,28	3,33	8,2	3,3	13,5	9000
08 B-1	1/2" x 5/16"	12,7	7,75	11,3	8,51	4,45	3,9	11,8	3,9	17	18000
10 B-1	5/8" x 3/8"	15,88	9,65	13,28	10,16	5,08	4,1	14,7	4,1	19,6	22400
12 B-1	3/4" x 7/16"	19,05	11,68	15,62	12,07	5,72	4,6	16,1	4,6	22,7	29000
16 B-1	1" x 0,67"	25,4	17,02	25,4	15,88	8,82	5,4	21	5,4	36,1	60000

Single Roller Chains DIN 8187 (European version) ISO 606-1982

Gravity- and Conveyor Roller

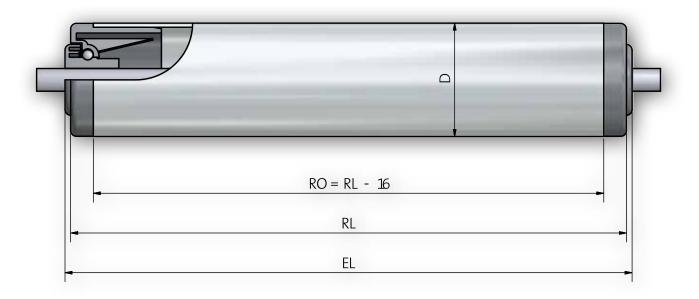
Туре	Description	Page
50/51	Thermoplastic synthetic material - Bearing housing with Ball Row	22
60	Thermoplastic synthetic material - Bearing housing with Ball Bearing	24
100/101/102/103	Thermoplastic synthetic material - Bearing housing with Ball Row	26
150 / 151	Thermoplastic synthetic material - Bearing housing with Slide Bearing	28
200	Steel housing with Ball Row	30
220	Steel housing with Ball Row	32
250 / 251	Steel housing with Precision Ball Bearing	34
260 / 261	Steel housing with Precision Ball Bearing	36
290	Steel housing with Precision Ball Bearing	38
300	Thermoplastic synthetic material - Bearing housing with Ball Bearing	40
301	Thermoplastic synthetic material - Bearing housing with Ball Bearing	42
302	Thermoplastic synthetic material - Bearing housing with Ball Bearing	44
306 / 307 / 308 / 309	Round Belt Grooves	46
320	Thermoplastic synthetic material -Bearing housing with Ball Bearing	48
400	Thermoplastic synthetic material - Bearing housing with Ball Bearing	50
400 ST	Steel housing with Precision Bearing	52
401	Thermoplastic synthetic material - Bearing housing with Ball Bearing	54
402	Thermoplastic synthetic material - Bearing housing with Ball Bearing	56
402 K	Bearing housing with Ball Bearing	58
402 ST	Steel housing with Precision Ball Bearing	60
402 WT	Steel housing with Precision Ball Bearing	62
402 WS	Steel housing with Precision Ball Bearing	64
402 WST	Steel housing with Precision Ball Bearing	66
402 WO	Steel housing with Precision Ball Bearing	68







Roller 50 / Roller 51



Shaft dimensions

Order Specifi	ication	AM	AIGM	Aglatt	AFA
Shaft-Ø	EL=	- <u>EL</u>	EL	=	
5	RL+			2	2
6	RL+	15		5	5
8	RL+	18	5	5	5
10	RL+	17	5	5	5

Tube dia.	A5	A6	A8	A10
16 x 1	X			
20 x 1,5		×	X	
30 x 1		×	X	×
30 x 1,8		×	X	X
32 x 2		×	X	X
40 x 1,5		×	X	X
40 x 2,3		×	X	X



Roller 50 / Roller 51

Bearing Type Thermoplastic synthetic material - Bearing Site

Type of Bearing Ball Row

Load Capacity/Roller 100N (depending upon the load limit of tube and shaft)

Max. Speed Range of Temperature Celsius -5 to +40 C

Optional Type 51 (Balls Stainless Steel 1.4034) Note Gravity Roller - not for use as driven roller.

Tube dia. 16 mm only available with shaft dia. 5 mm.

For tube dia. 16 mm RO = RL - 14.

Order Example

Туре	50 - 20	0x1,5	KB A8	3 FA E	L=200m	m
Bearing Type		Ī	ĪĪ	Ī	Ī	
Tube-Ø and wall thickness						
Tube quality						
Shaft-Ø						
Shaft Ends						
Installation length						





Shaft dimensions

Order Specif	fication	AM	AIGM
Shaft-Ø	EL=		EL
3	RL+	13	10
10	RL+	12	10

Tube dia.	A8	A10	A12	A14
30 x 1	Х	X		
30 x 1,8	X			
32 x 2	X	X		
40 x 1.5	X	X	X	X



Bearing Type Thermoplastic synthetic material - Bearing Site

Type of Bearing Ball Bearing (Series 608,6000), 6202 re DIN 625 available in 2RS,

ZZ Standard Series 608ZZ

Load Capacity/Roller 600N (depending upon the load limit of tube and shaft)

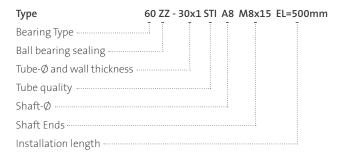
Max. Speed 1,5 m/s Range of Temperature Celcius -5 to +40 C

Optional

Note Shaft with Female Thread only in combination with shaft securing

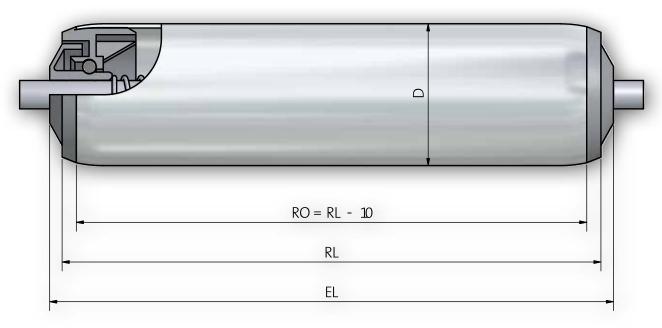
(Circlip, Starlock), antistatic version (only for Steel Tube).

Order Example





Roller 100/101/102/103



Shaft dimensions

Order Specifi	ication	AM	AAGM	AIGM	Aglatt	ASW	AFA
Shaft-Ø	EL=	- EL	_EL	EL		EL	- }
6	RL+	20			10		10
8	RL+	23		10	10		10
S 8	RL+				10		10
10	RL+	22	10	10	10	10	10
S 11	RL+				10		10
12	RL+	24	10	10	10	10	10

Tube- and Shaft Combination

Tube dia.	A6	A8	A 58	A10	A S11	A 12
50 x 1,5	X	X	X	X	X	X
50 x 2,8	X	X	X	X	X	Х
60,3 x 1,65	X	X	X	×	X	X
63 x 3	X	X	X	X	X	X

Optional Coatings Page 10 Slip On Caps Page 13



Roller 100/101/102/103

Bearing Type Thermoplastic synthetic material - Bearing Site

Type of Bearing Ball Row

Load Capacity/Roller 200N (depending upon the load limit of tube and shaft)

Max. Speed 0,3 m/s Range of Temperature Celcius -5 to +40 C

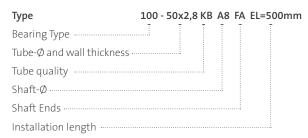
Optional Type 101 (with cage)

Type 102 (balls Stainless Steel 1.4301/1.4401)

Type 103 (balls Stainless Steel 1.4301/1.4401 with cage)

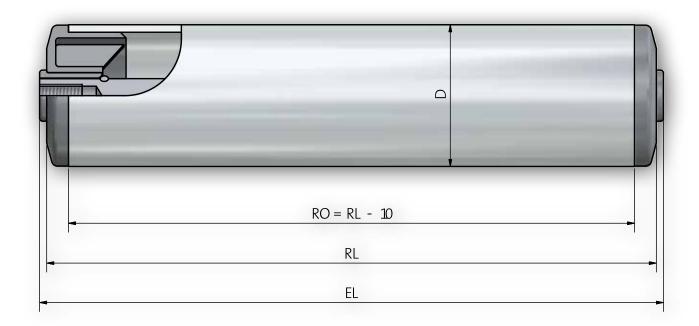
Note Gravity Roller - not for use as driven roller.

Order Example





Roller 150 / 151



Shaft dimensions

Order Specifi	cation	А	M	AI	5M	Ag	latt	AS		A	FA
Shaft-Ø	EL=	_	-E	-	EL	=	=		EL	=	
		S	K	S	K	S	K	S	K	S	K
8	RL+	19	23			6	10			6	10
10	RL+	18	22	6	10	6	10	6	10	6	10
12	RL+	20	24	6	10	6	10	6	10	6	10
14	RL+	22	26	6	10	6	10	6	10	6	10

s = Steel tube **K** = Plastic tube

Tube dia.	A8	A10	A 12	A 14
50 x 1,5	X	X	X	Х
50 x 2,8	X	X	X	×
60 x 2	X	X	X	X
60,3 x 1,65	X	X	X	×
63 x 3	X	X	X	X



Bearing Type Thermoplastic synthetic material - Bearing Site

Type of Bearing Slide bearing bushes

Load Capacity/Roller 150N (depending upon the load limit of tube and shaft)

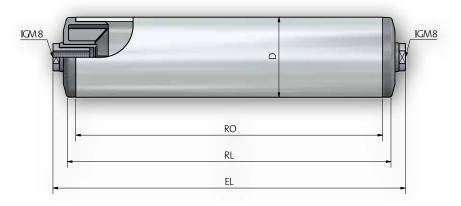
Max. Speed 0,3 m/s Range of Temperature Celcius -5 to +40 C

Optional

Note Gravity Roller - not for use as driven roller.

For tube dimension 50×2.8 : RO = RL - 12.

Roller 151 (Special design)

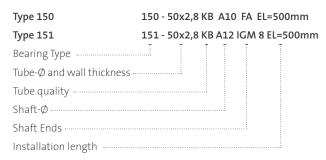


Note

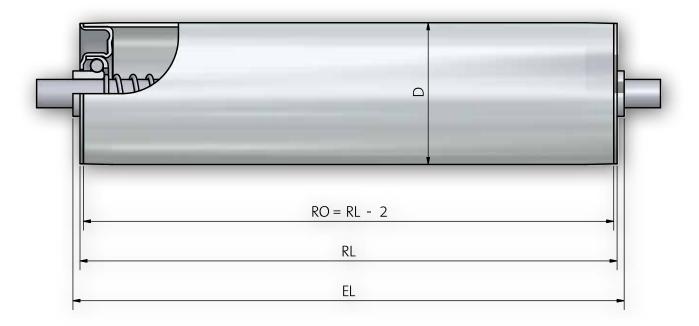
Gravity roller - not to be used as driven roller.

Closed plain bearing bush prevents infiltration of wetness.

Order Example Type 150







Shaft dimensions

Order Specifica	ntion	AM	AIGM	Aglatt	ASW	AFA	
Shaft-Ø	EL=	- EL	EL	==	EL	- }}}	
6	RL+	16		6		6	
8	RL+	19		6		6	
10	RL+	18	6	6	6	6	
S 11	RL+			6		6	
12	RL+	20	6	6	6	6	

Tube dia.	A6	A8	A10	A S11	A 12	
30 x 1,5	×	X	X			
40 x 1,5		×	X	X	X	
50 x 1,5	×	×	X	X	X	
50 x 2		×	X	X	X	
60 x 2		×	X	X	X	
80 x 2			×	X	X	



Bearing Type Steel housing with Ball Row

Type of Bearing Ball Row

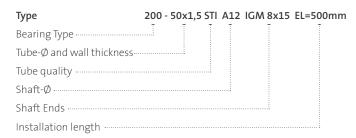
Load Capacity/Roller 1.600N (depending upon the load limit of tube and shaft)

Max. Speed 0,6 m/s
Range of Temperature Celcius -5 to +80 C

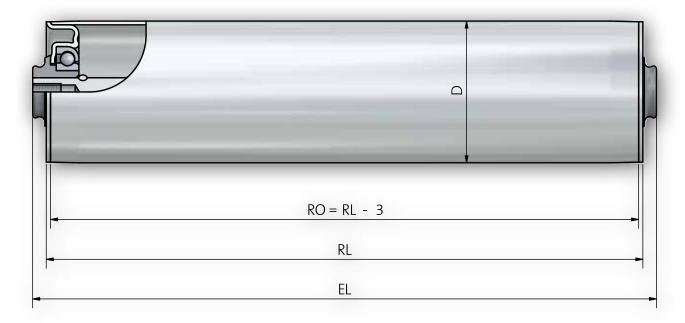
Optional With special greasing even for use in Deep Freeze Areas (-28°C)

Note Gravity Roller - not for use as driven roller.

Order Example







Shaft dimensions

Order Specifica	tion	AM	AAGM	AIGM	Aglatt	ASW	AFA
Shaft-Ø	EL=	EL		EL		EL	-
10	RL+	22	10	10	10	10	10
12	RL+	24	10	10	10	10	10
15	RL+	26	10	10	10		

Tube dia.	A10	A12	A15
50 x 1,5	X	X	X
50 x 2	X	X	X
60 x 2	X	X	×
80 x 2	X	X	X



Bearing Type Steel housing with Ball Row

Type of Bearing Ball Row

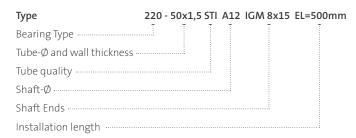
Load Capacity/Roller 2.400N (depending upon the load limit of tube and shaft)

Max. Speed 0,8 m/s Range of Temperature Celcius -5 to +80 C

Optional With special greasing even for use in Deep Freeze Areas (-28°C)

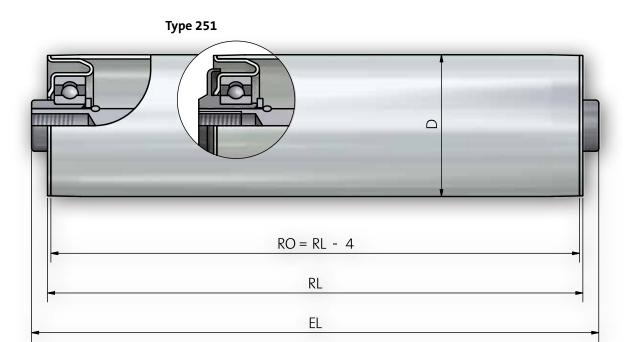
Note Gravity Roller - not for use as driven roller.

Order Example





Roller 250 / 251



Shaft dimensions

Order Specifi	cation	AM	AAGM	AIGM	Aglatt	ASW	AFA
Shaft-Ø	EL=	- EL	E	EL		EL	-
8	RL+	23			10		10
10	RL+	22	10	10	10	10	10
S11	RL+				10		10
12	RL+	24	10	10	10	10	10
14	RL+	26	10	10	10	10	10
15	RL+		10	10		10	
17	RL+	26		10		10	

Tube dia.	A8	A10	S11	A12	A14	A15	A17
40 x 1,5				X			
50 x 1,5	X	X	×	X	×	X	X
50 x 2	X	X	×	X	×	X	X
60 x 2	X	X	×	X	×	X	X
60 x 3		X	×	×	×	X	X
80 x 2				×	X	X	X
80 x 3				×	×	X	X



Roller 250 / 251

Bearing Type Steel housing with Precision Ball Bearing

Type of Bearing Ball Bearings (Series 6001,6003,6202) DIN 625 available in 2RS,

ZZ Standard Series

 $\ensuremath{\mathsf{6202ZZ}}$ - plastic distance bushings to get the shaft diameters

Load Capacity/Roller 2.400N (depending upon the load limit of tube and shaft)

Max. Speed 1,2 m/s
Range of Temperature Celcius -5 to +60 C

Optional Type 251 with additional shelter

Note For use as driven roller.

Tube dia. 40 mm only with Shaft dia. D=12 mm (Ending flat and FA not available).

Shaft dia. 15 mm und 17 mm without distance bush.

Type 251 for shaft 17 mm not available.

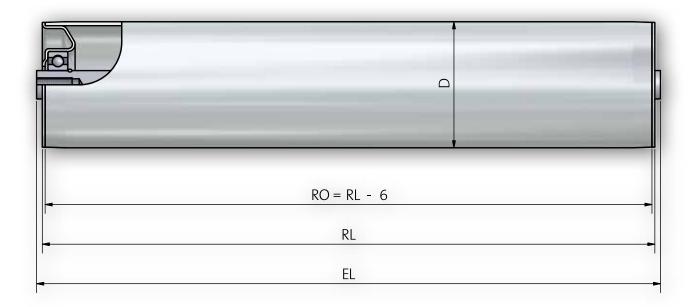
With special greasing even for use in Deep Freeze Areas (-28°C).

Order Example

250	ZZ	- 50x1,5	STI	A12	IGM 8x15	EL=500mm
	Ī		Ī	Ī	Ī	
	i					
			İ			



Roller 260 / 261



Shaft dimensions

Order Specif	ication	AM	AIGM	ASW
Shaft-Ø	EL=	- <u>EL</u>	EL	EL
17	RL+	22	6	6
20	RL+	24	6	6
25	RL+		6	6

Tube dia.	A17	A20	A25
63,5 x 2,9		X	
70 x 2,9	X	X	
80 x 2	X	×	Х
88,9 x 2,9	X	×	X
108 x 3,6		×	Х



Roller 260 / 261

Bearing Type Steel housing with Precision Ball Bearing

Type of Bearing Ball Bearings (Series 6004,6005,6204) DIN 625 available in 2RS, ZZ

Load Capacity/Roller 5.000N (depending upon the load limit of tube and shaft)

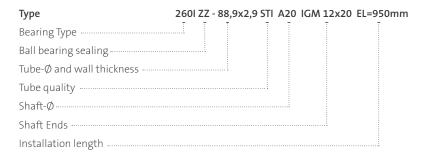
Max. Speed 1,2 m/s
Range of Temperature Celcius -5 to +80 C

Optional Type 261 with additional sealing

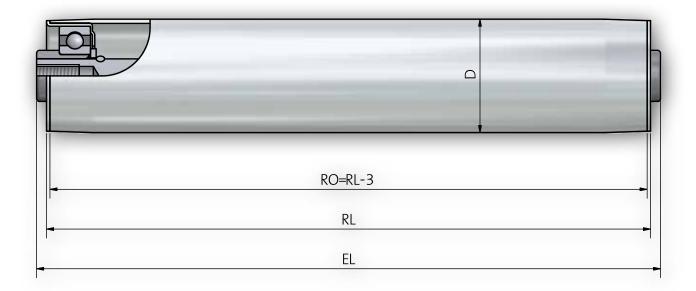
Note For use as driven roller.

Tube dia. 63,5 mm only available with shaft dia. D=20 mm. With special greasing even for use in Deep Freeze Areas (-28°C).

Order Example







Shaft dimensions

Order Specifi	cation	AM	AAGM	AIGM	Aglatt	ASW	AFA
Shaft-Ø	EL=	-EL	EL	EL		EL	
8	RL+				10		10
10	RL+	22	10	10	10	10	10
S 11	RL+				10		10
12	RL+	24	10	10	10	10	10
14	RL+	26	10	10	10	10	10
15	RL+		10	10		10	

Tube dia.	A8	A10	A S11	A12	A14	A15
40 x 1,5	X	X	Х	X	X	X



Bearing Type Steel housing with Precision Ball Bearing

Type of Bearing Ball Bearings (Series 6202) DIN 625 available in 2RS, ZZ Standard Series

6202ZZ - plastic distance bushings to get the shaft diameters

Load Capacity/Roller 1.200N (depending upon the load limit of tube and shaft)

Max. Speed 1,2 m/s
Range of Temperature Celcius -5 to +60 C

Optional

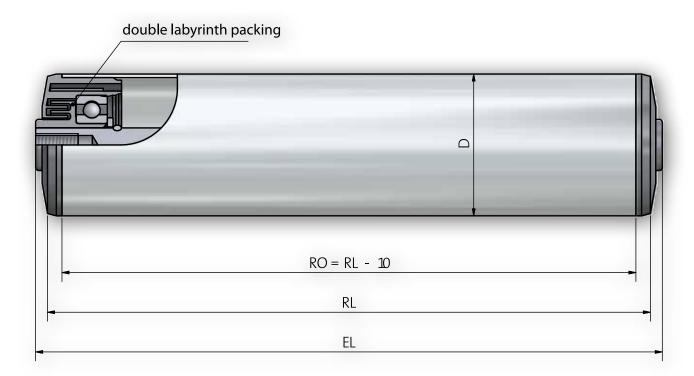
Note For use as driven roller.

With special greasing even for use in Deep Freeze Areas (-28°C).

Order Example

Туре	290 ZZ	- 40x1,5 ST	I A12	IGM 8x15	EL=500mm
Bearing Type	[Ī		Ī
Ball bearing sealing					
Tube-Ø and wall thickness					
Tube quality					
Shaft-Ø					
Shaft Ends					
Installation length					<u>.</u>





Shaft dimensions

Order Specific	cation	AM	AAGM	AIGM	Aglatt	ASW	AFA
Shaft-Ø	EL=			EL		EL	
8	RL+	23			10		10
10	RL+	22	10	10	10	10	10
S 11	RL+				10		10
12	RL+	24	10	10	10	10	10
14	RL+	26	10	10	10	10	10

Tube dia.	A8	A10	A S11	A12	A14
50 x 1,5	X	X	X	X	X
50 x 2,8	X	X	X	×	X
60 x 2	X	X	X	×	X
60,3 x 1,65	X	X	X	×	X
63 x 3	×	X	X	×	X
70 x 2		X	X	×	X
80 x 2		X	X	×	X
88,9 x 2,9		X	X	×	X
90 x 7		X	X	X	X



Bearing Type Thermoplastic synthetic material - Bearing Site

Type of Bearing Ball Bearings (Series 6202) DIN 625 available in 2RS,

ZZ Standard Series 6202ZZ

Load Capacity/Roller 1.600N (depending upon the load limit of tube and shaft)

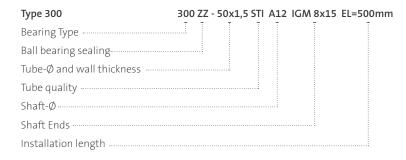
Max. Speed 2 m/s

Range of Temperature Celcius -5 to +50 C

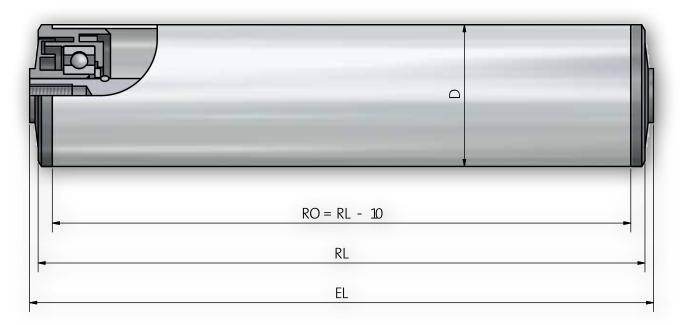
Optional Typ 300 D with plastic bearing cage and stainless steel balls 1.4401

Note For use as driven roller (not 300 D).

Order Example







Shaft dimensions

Order Specifi	cation	AM	AAGM	AIGM	Aglatt	ASW	
Shaft-Ø	EL=	- <u>EL</u>	EL	EL		EL	
8	RL+	19	6	6	6	6	
10	RL+	19	7	7	7	7	
12	RL+	21	7	7	7	7	
14	RL+	23	7	7	7	7	
15	RL+	23	7	7	7	7	
17	RL+	21	5	5	5	5	

Tube dia.	A8	A10	A12	A14	A15	A17
50 x 1,5	X	X	X	X	X	×
50 x 2,8	X	X	X	X	X	×
60 x 2	X	X	X	X	X	×
60,3 x 1,65	X	X	X	X	X	×
63 x 3	X	X	X	X	X	×
70 x 2		X	X	X	X	×
80 x 2		X	X	X	X	X
88,9 x 2,9		X	X	X	X	X



Bearing Type Thermoplastic synthetic material - Bearing Site

Type of Bearing Ball Bearings (Series 6202, 6003) DIN 625 available in 2RS,

ZZ Standard Series 6202ZZ

Load Capacity/Roller 1.600N (depending upon the load limit of tube and shaft)

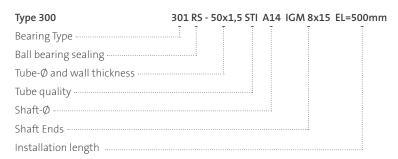
Max. Speed 2 m/s

Range of Temperature Celcius -5 to +50 C

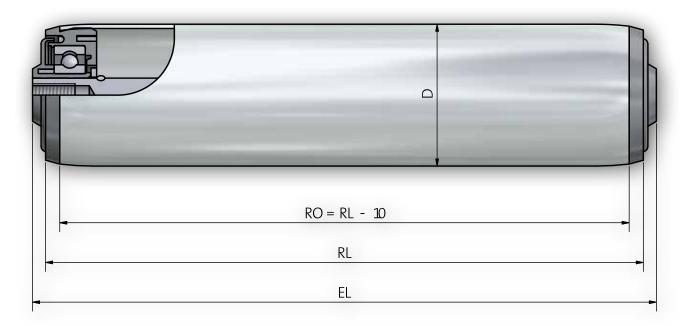
Optional

Note For use as driven roller.

Order Example







Shaft dimensions

Order Specifi	ication	AM	AAGM	AIGM	Aglatt	ASW	AFA
Shaft-Ø	EL=	- <u>-</u>	EL	EL		EL	
8	RL+	23	10	10	10	10	10
10	RL+	22	10	10	10	10	10
S 11	RL+				10		10
12	RL+	24	10	10	10	10	10
14	RL+	26	10	10	10	10	10
15	RL+	26	10	10	10	10	

Tube dia.	A8	A10	S11	A12	A14	A15
40 x 1,5			X	×		
50 x 1,5	×	X	X	×	X	X
60 x 2	×	X	X	×	X	X



Bearing Type Thermoplastic synthetic material - Bearing Site

Type of Bearing Ball Bearings (Series 6202) DIN 625 available in 2RS, ZZ Standard Series

 $\ensuremath{\mathsf{6202ZZ}}$ - plastic distance bushings to get the shaft diameters

Load Capacity/Roller 1.600N (depending upon the load limit of tube and shaft)

Max. Speed 2 m/s

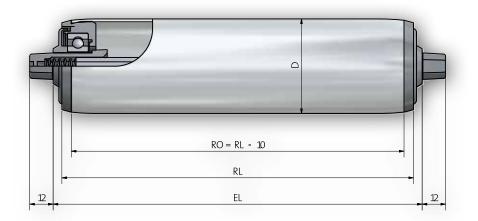
Range of Temperature Celcius -5 to +50 C

Optional

Note For use as driven roller.

Antistatic Version.

Roller 302-50x1,5 STI ASK 8 SK 11x12 FA

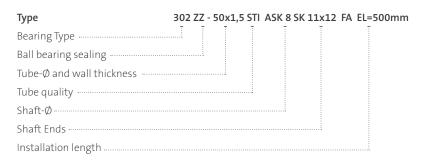


Note

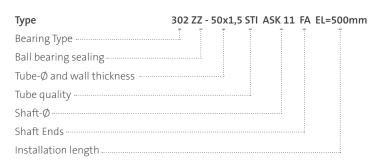
Roller equipped with conical hexagonal adapters on both ends which can be pressed in Load Capacity 400N

For 302-40x1,5 STI ASK 8 SK 11x12 FA the excess length of the spring loaded hexagonal shaft is 14 mm on both sides

Order Example 302-50x1,5 STI ASK 8 SK 11x12 FA

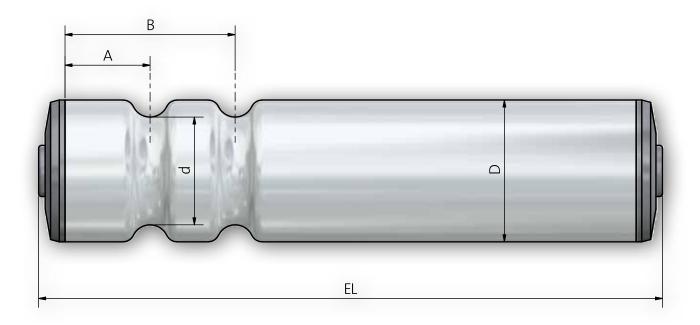


Order Example 302





Roller 306 / 307 / 308 / 309



Steel tube

Belt-Ø	4	4	5	6	6	6	6	8	8
Tube diaØ	30x1	40x1,5	48x1,5	50x1,5	60x2	63,5x2,9	80x3	88,9x2,9	108x3,25
A min	30	30	30	30	35	35	35	35	35
(B-A) min	30	30	30	30	35	35	35	35	35
d min	22	32	38	38	48	51	68	73	92

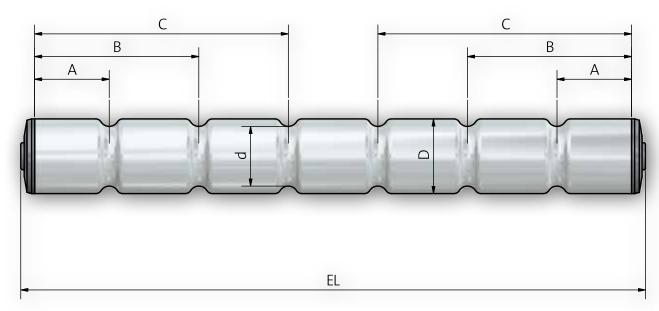
Plastic tube

Belt-Ø	4	4	5	5
Tube diaØ	30x1,8	40x2,3	50x2,8	63x3
A min	35	35	30	35
(B-A) min	30	30	30	35
d min	22	32	40	53

The following roller types can be used as grooved rollers: 60, 250, 260, 290, 300, 301, 302, 400, 402

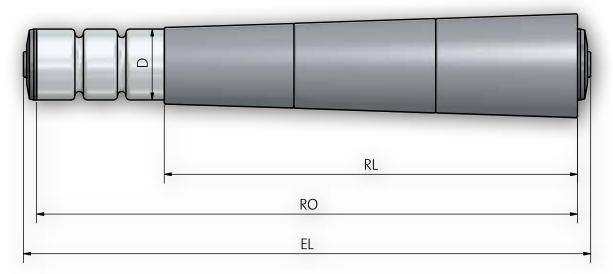


Roller 306 / 307 / 308 / 309

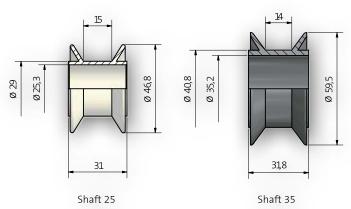


Note

Type 306 available with more grooves spread over the length. Minimum distance between grooves 30 mm.



Accessories: Round belt wheel



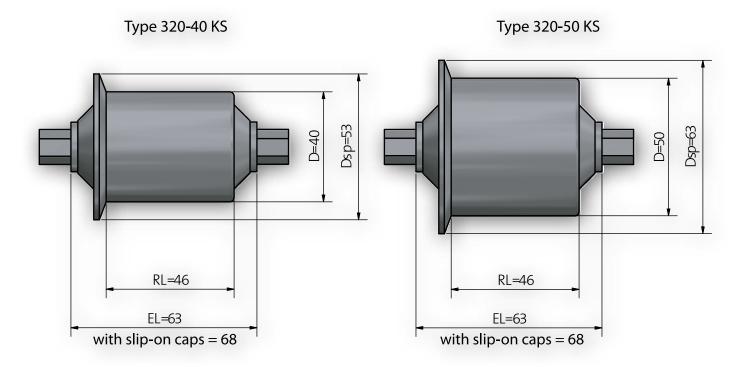
Order extension to be placed in front of roller type:

306 = 1 groove 307 = 2 grooves 308 = 3 grooves 309 = 4 grooves

Technical Notes

Generally Note Page 5





Shaft dimensions

Order Specifi	ication	AIGM	Aglatt	ASW
Shaft-Ø	EL=	======================================		EL EL
8	RL+	17	17	17
10	RL+	17	17	17
S 11	RL+		17	
12	RL+	17	17	17
14	RL+	17	17	17



Bearing Type Thermoplastic synthetic material - Bearing Site

Type of Bearing Ball Bearings (Series 6202) DIN 625 available in 2RS, ZZ Standard Series

6202ZZ - plastic distance bushings to get the shaft diameters

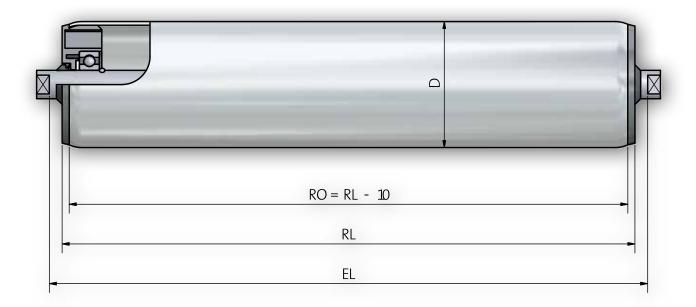
Load Capacity/Roller 1.200N (depending upon the load limit of tube and shaft)

Max. Speed 1,2 m/s
Range of Temperature Celcius -5 to +50 C

Optional

Note For use as guide roller for Flat Belts.





Shaft dimensions

Order Specif	ication	AM	AAGM	AIGM	ASW
Shaft-Ø	EL=	- EL	E	EL	EL
20	RL+	24	6	6	6
25	RL+		6	6	6

Tube dia.	A20	A25
50 x 2	Х	
60 x 2	X	
63,5 x 2,9	X	
80 x 2	X	
80 x 3	X	
88,9 x 2,9	X	X
90 x 7	X	X
108 x 3,25	X	×
133 x 3,6	X	×



Bearing Type Thermoplastic synthetic material - Bearing Site

Type of Bearing Ball Bearing (Series 6004, 6005, 6204, 6205) DIN 625 available in 2RS,

ZZ - additional shelter with Felt Ring and V-Ring

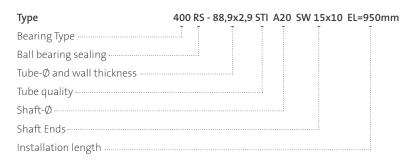
Load Capacity/Roller 3.600N (depending upon the load limit of tube and shaft)

Max. Speed 1,2 m/s
Range of Temperature Celcius -5 to +60 C

Optional

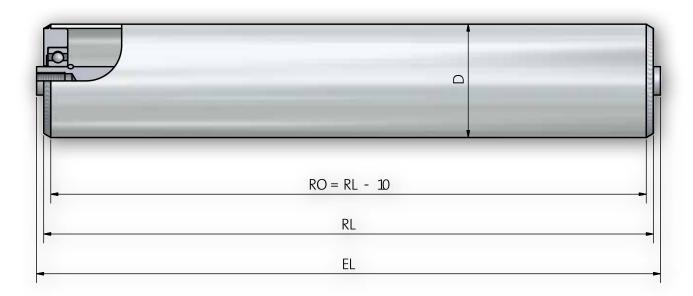
Note For use as Belt Conveyor Roller.

Order Example





Roller 400 ST



Shaft dimensions

Order Specifica	ntion	AM	AAGM	AIGM	ASW	
Shaft-Ø	EL=	EL EL	EL.	EL	EL	
20	RL+	26	6	6	6	
25	RL+		6	6	6	

Tube dia.	A20	A25
63,5 x 2,9	X	Х
80 x 3	X	Х
88,9 x 2,9	X	Х
108 x 3,25	X	Х
133 x 3,6	X	X



Roller 400 ST

Bearing Type Steel housing with Precision Ball Bearing

Type of Bearing Ball Bearing (Series 6004, 6005, 6204) DIN 625 available in 2RS, Z, ZZ

Load Capacity/Roller (depending upon the load limit of tube and shaft)

Max. Speed 1,2 m/s
Range of Temperature Celcius -5 to +80 C

Optional Type 400 N made of stainless steel

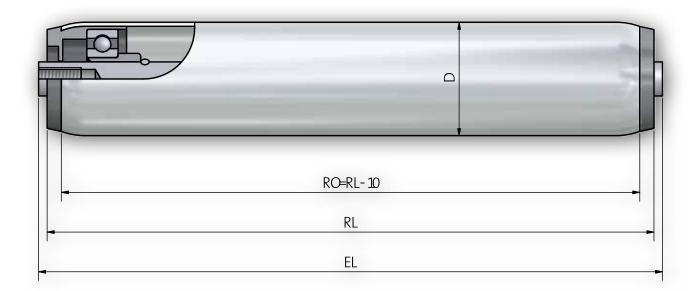
Note With special greasing even for use in Deep Freeze Areas (-28°C).

Steel housing welded to the tube.

Order Example

Туре	400 ST RS	- 88,9x2,9	ST A2	0 IGM 12x20	EL=950mm
Bearing Type	Ī Ţ	Ī	ĪĪ	Ī	Ī
Ball bearing sealing					
Tube-Ø and wall thickness					
Tube quality					
Shaft-Ø					
Shaft Ends					
Installation length					





Shaft dimensions

Order Specifi	ication	AM	AIGM	ASW
Shaft-Ø	EL=		EL	EL
8	RL+	19		
10	RL+	18	6	6
12	RL+	20	6	6
14	RL+	22	6	6
17	RL+	22	6	6

Tube- and Shaft Combination

Tube dia.	A8	A10	A12	A14	A17
40 x 1,5	X	X	X	X	
50 x 2	X	X	X	X	X

Optional Coatings Page 10 Slip On Caps Page 13



Bearing Type Thermoplastic synthetic material - Bearing Site

Type of Bearing Ball Bearing (Series 6003, 6202) DIN 625 available in 2RS,

Z, ZZ Standard Series 6202ZZ

Load Capacity/Roller 1.600N (depending upon the load limit of tube and shaft)

Max. Speed 1,2 m/s
Range of Temperature Celcius -5 to +60 C

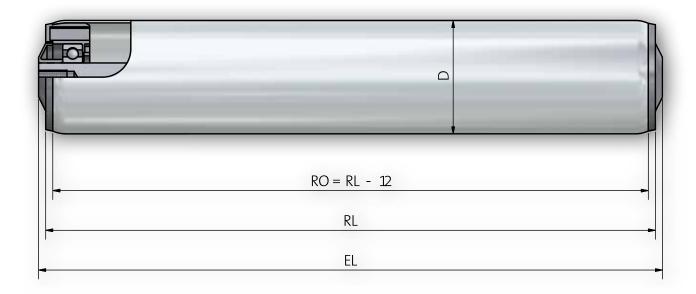
Optional Even available with V-Ring shelter

Note

Order Example







Shaft dimensions

Order Specifica	ation	AM	AIGM	Aglatt	ASW
Shaft-Ø	EL=		EL	=	EL EL
8	RL+	23		10	
10	RL+	22	10	10	10
12	RL+	24	10	10	10
14	RL+	26	10	10	10
17	RL+	26	10	10	10
20	RL+	28	10	10	10

Tube dia.	A8	A10	A12	A14	A17	A20	
40 x 1,5	X	X	X	X			
60 x 2					X	X	
63,5 x 2,9					X	X	
80 x 2					X	X	
88,9 x 2,9					X	X	
108 x 3,25					×	×	



Bearing Type Thermoplastic synthetic material - Bearing Site

Type of Bearing Ball Bearing (Series 6002, 6204, 6303) DIN 625 available 2RS, ZZ

Load Capacity/Roller 3.600N (depending upon the load limit of tube and shaft)

Max. Speed 1,2 m/s Range of Temperature Celcius -5 to +60 C

Optional

Note Shaft dia. 8 mm, 10 mm, 12 mm and 14 mm only available for Tube dia. 40 mm.

Load capacity for Tube dia. 40 mm max. 800N / Roller.

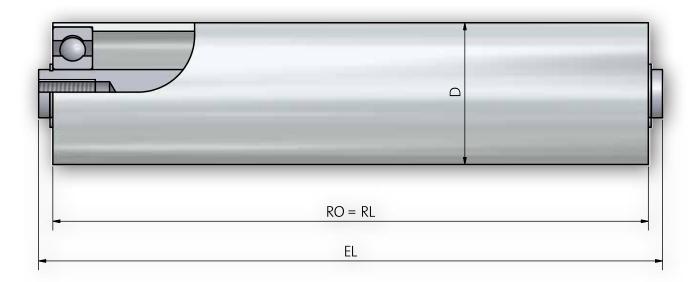
Cover caps for tube dia. 60 or higher.

Order Example

Туре	 	STI A	20 IGM 1	2x20	EL=950mm
Bearing Type					
Ball bearing sealing					
Tube-Ø and wall thickness	 				
Tube quality	 				
Shaft-Ø	 		.i		
Shaft Ends	 				
Installation length	 				<u>i</u>



Roller 402 K



Shaft dimensions

Order Specif	fication	AAGM	AIGM	ASW
Shaft-Ø	EL=	- EL	EL	EL
15	RL+	10	10	10
17	RL+	10	10	10
20	RL+	10	10	10

Tube dia.	A15	A17	A20
40 x 3	Х	×	
50 x 3		X	X



Roller 402 K

Bearing Type Ball Bearing Site lathed into the tube

Type of Bearing Ball Bearing (Series 6003, 6202, 6204) DIN 625 available in 2RS, ZZ

Load Capacity/Roller (depending upon the load limit of tube and shaft)

Max. Speed 1,2 m/s Range of Temperature Celcius -5 to +80 C

Optional

Note With special greasing even for use in Deep Freeze Areas (-28°C).

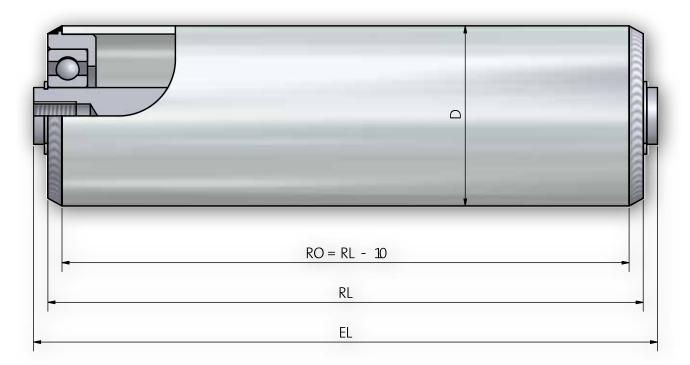
Ball Bearing secured with snap rings on the shaft.

Order Example

Туре			IGM 12x20	EL=950mm
Bearing Type		-	Ī	
Ball bearing sealing				
Tube-Ø and wall thickness				
Tube quality	 			
Shaft-Ø	 			
Shaft Ends	 			
Installation length	 			



Roller 402 ST



Shaft dimensions

Order Specifica	tion	AM	AAGM	AIGM	ASW
Shaft-Ø	EL=	EL	-E	EL	EL EL
20	RL+	26	6	6	6
25	RL+		6	6	6

Tube dia.	A20	A25
63,5 x 2,9	X	Х
80 x 3	X	Х
88,9 x 2,9	X	X
108 x 3,25	X	X
133 x 3,6	X	Х



Roller 402 ST

Bearing Type Steel housing with Precision Ball Bearing

Type of Bearing Ball Bearings (Series 6004, 6005, 6204) DIN 625 available 2RS, ZZ

Load Capacity/Roller (depending upon the load limit of tube and shaft)

Max. Speed 1,2 m/s
Range of Temperature Celcius -5 to +80 C

Optional 402 N stainless steel 1.4305

Note With special greasing even for use in Deep Freeze Areas (-28°C).

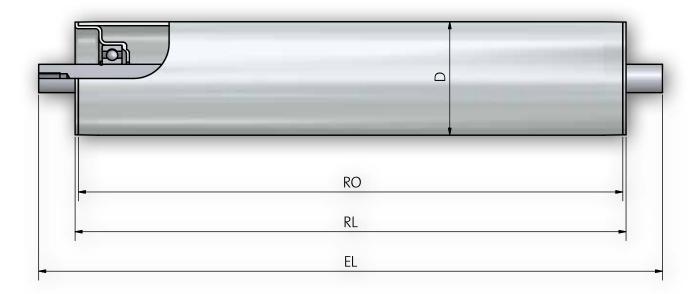
Bearing housing welded to the tube.

Order Example

Туре				A20	IGM 12x20	EL=950mm
Bearing Type		Ī	Ī	Ī		
Ball bearing sealing	 					
Tube-Ø and wall thickness	 	 				
Tube quality	 	 				
Shaft-Ø	 	 				
Shaft Ends	 	 				
Installation length	 	 				



Roller 402 WT



Shaft dimensions

Order Specif	fication	AAGM	AIGM	ASW
Shaft-Ø	EL=	- EL	EL	EL
15	RL+	10	10	10
17	RL+	10	10	10
20	RL+	10	10	10

Tube dia.	A15	A17	A20
50 x 1,5	X		
50 x 2	X		
60 x 2	X	X	
60 x 3	X	X	
63,5 x 2,9		X	Х
80 x 2			Χ
80 x 3			X
88,9 x 2,9			X



Roller 402 WT

Bearing Type Steel housing	with Precision Ball Bearing
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Type of Bearing Ball Bearings (Series 6202, 6204) DIN 625 available in 2RS, ZZ Load Capacity/Roller 2.400N (depending upon the load limit of tube and shaft)

Max. Speed 1,2 m/s
Range of Temperature Celcius -5 to +80 C

Optional

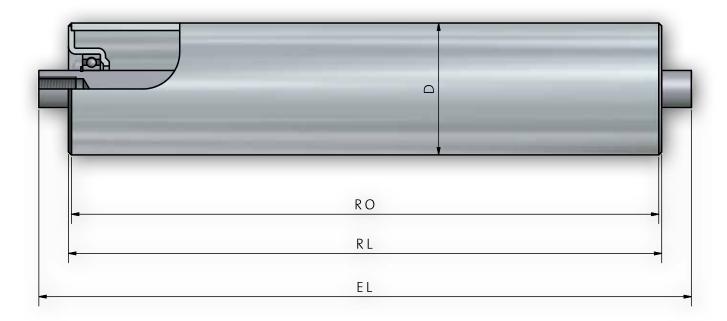
Note With special greasing even for use in Deep Freeze Areas (-28°C).

Order Example

Туре			M 12x20	EL=950mm
Bearing Type		Ī	Ī	
Ball bearing sealing Tube-Ø and wall thickness				
Tube-Ø and wall thickness	 			
Tube quality	 			
Shaft-Ø	 			
Shaft Ends	 			
Installation length	 			



Roller 402 WS



Shaft dimensions

Order Specifi	ication	AIGM	ASW
Shaft-Ø	EL=	EL.	EL
20	RL+	10	10
25	RL+	10	10

Tube dia.	A20	A25
63,5 x 2,9	X	Х
80 x 3	X	Х
88,9 x 2,9	X	Х
108 x 3,25	X	Х
133 x 3,6	X	X



Roller 402 WS

Bearing Type	Steel housing with Precision Ball Bearing
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Type of Bearing Ball Bearings (Series 6005, 6204) DIN 625 available in 2RS, ZZ Load Capacity/Roller 6.000N (depending upon the load limit of tube and shaft)

Max. Speed 1,2 m/s
Range of Temperature Celcius -5 to +80 C

Optional

Note With special greasing even for use in Deep Freeze Areas (-28°C).

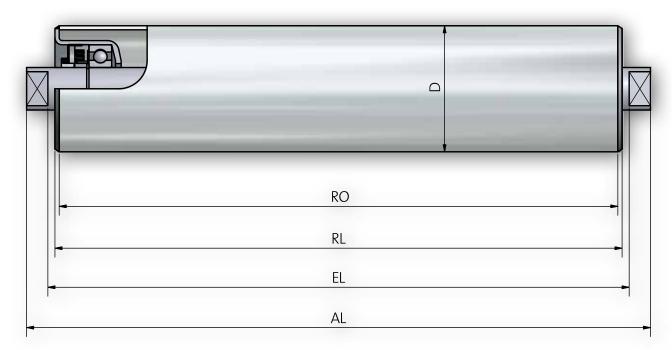
Bearing housing welded to the tube.

Order Example

Туре	402	WS RS	- 88,9x2	,9 ST	A20	IGM 12x20	EL=950mm
Bearing Type		Ī	Ī	Ī	Ī	Ī	Ī
Ball bearing sealing		i					
Tube-Ø and wall thickness							
Tube quality							
Shaft-Ø					İ		
Shaft Ends							
Installation length							



Roller 402 WST



Shaft dimensions

Order Specifi	ication	AIGM	ASW
Shaft-Ø	EL=	EL EL	EL
20	RL+	10	10
25	RL+	10	10

Tube- and Shaft Combination

Tube dia.	A20	A25
80 x 2	X	
80 x 3	X	Х
88,9 x 2,9	X	X
108 x 3,25	X	X
133 x 3,6	X	X

Optional Coatings Page 10 Slip On Caps Page 13



Roller 402 WST

Bearing Type Steel housing with Precision Ball Bearing

Lagerung Ball Bearings (Series 6005, 6204) DIN 625 available in 2RS, ZZ Load Capacity/Roller 3.600N (depending upon the load limit of tube and shaft)

Max. Speed 1,2 m/s Range of Temperature Celcius -5 to +80 C

Optional Available with labyrinth packing

Note With special greasing even for use in Deep Freeze Areas (-28°C).

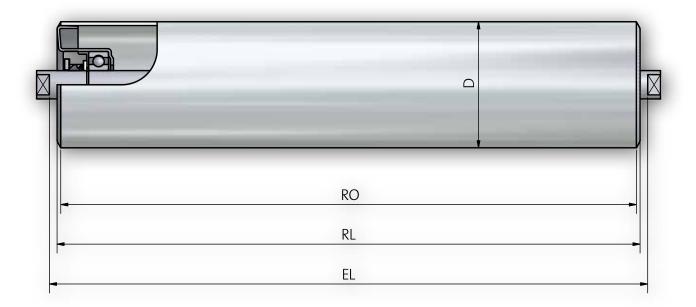
Bearing housing welded to the tube.

Order Example

Туре	402	WST R	S -	88,9x2,9	ST	A20	SW 15x10	EL=950mm
Bearing Type		Ī		Ī	Ī	Ī	Ī	Ī
Ball bearing sealing		i						
Tube-Ø and wall thickness								
Tube quality					i			
Shaft-Ø								
Shaft Ends								
Installation length								



Roller 402 WO



Shaft dimensions

Order Specifi	cation	AIGM	ASW
Shaft-Ø	EL=	——————————————————————————————————————	EL
20	RL+	6	6
25	RL+	6	6

Tube- and Shaft Combination

Tube dia.	A20	A25
63 x 2,9	X	Х
80 x 2	X	Х
80 x 3	X	Х
88,9 x 2,9	X	Х
108 x 3,25	X	X
133 x 3,6	X	Х

OptionalCoatings Page 10Slip On Caps Page 13Back up rings / Buffer rings Page 237



Roller 402 WO

Bearing Type Steel housing with Precision Ball Bearing

Type of Bearing Ball Bearings (Series 6204, 6205) DIN 625 available in 2RS, ZZ Load Capacity/Roller 3.600N (depending upon the load limit of tube and shaft)

Max. Speed 1,2 m/s Range of Temperature Celcius -5 to +80 C

Optional Available with Labyrinth Packing

Note With special greasing even for use in Deep Freeze Areas (-28°C).

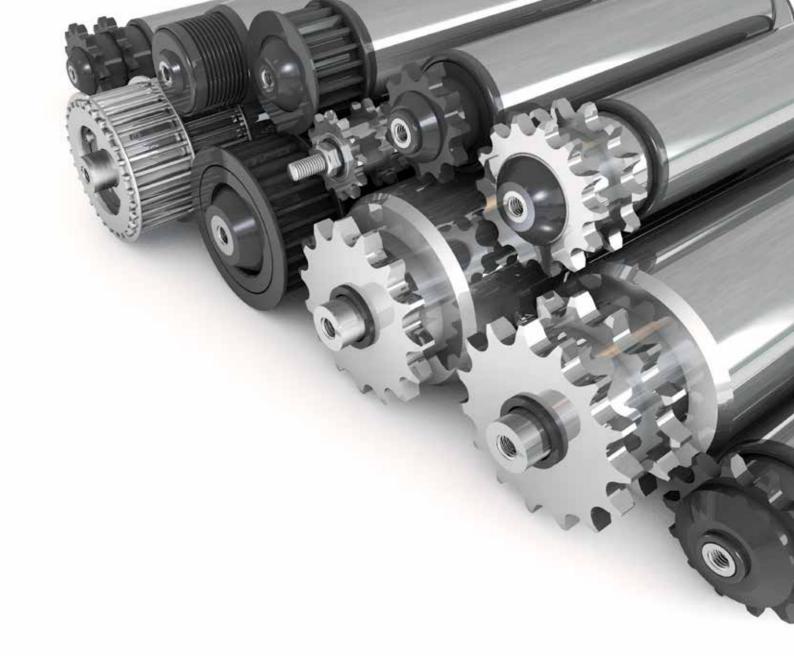
Bearing housing welded to the tube.

Order Example

Туре	402 WO	RS -	108x3,25	ST	A20	SW 15x10	EL=950mm
Bearing Type	<u> </u>	Ī	Ī	Ī	Ī	Ī	Ī
Ball bearing sealing		İ					
Tube-Ø and wall thickness							
Tube quality				İ			
Shaft-Ø							
Shaft Ends							
Installation length							

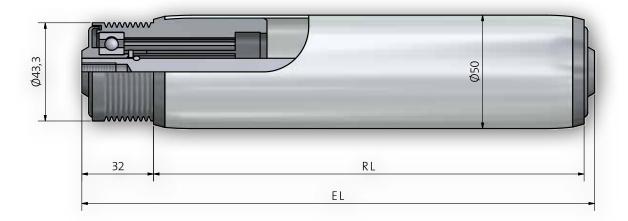
Driven Roller

Туре	Description	Page
420	Thermoplastic synthetic material - Ripped-V-Belt PJ profile	72
421	Steel-Ripped-V-Belt PJ profile	74
423	Thermoplastic synthetic material - Round belt with two grooves	76
432 / 433	Steel double chain sprocket 3/8x7/32" z=12	78
435 / 436	Steel single chain sprocket 3/8x7/32" z=10	80
437 / 438	Steel single chain sprocket 3/8x7/32" z=10	82
445 / 446	Thermoplastic synthetic material - tooth belt wheel T8 z=20 Polychain	84
445 R	Steel-tooth belt wheel T8 z=20 Polychain	86
447	Steel-tooth belt wheel T8 z=20 Polychain	88
450 / 451	Thermoplastic synthetic material - single chain sprocket 1/2x5/16" z=11	90
452 / 453	Thermoplastic synthetic material - single chain sprocket 1/2x5/16" z=11	92
454 / 455	Steel single chain sprocket 1/2x5/16" z=11	94
454 R	Steel single chain sprocket 1/2x5/16" z=11	96
456	Steel single chain sprocket 1/2x5/16" z=11	98
457 / 458	Steel single chain sprocket 1/2x5/16" z=11	100
462 / 463	Steel single chain sprocket 5/8x3/8" z=12	102
462 R	Steel single chain sprocket 5/8x3/8" z=12	104
464	Steel single chain sprocket 5/8x3/8" z=12	106
470 / 471	Thermoplastic synthetic material - single chain sprocket 1/2x5/16" z=14	108
480 / 481	Thermoplastic synthetic material - double chain sprocket 1/2x5/16" z=14	110
500 / 501	Steel double chain sprocket 1/2x5/16" z=14	112
500 R	Steel double chain sprocket 1/2x5/16" z=14	114
502	Steel double chain sprocket 1/2x5/16" z=14	116
506 / 507	Steel single chain sprocket 1/2x5/16" z=14	118
506 R	Steel single chain sprocket 1/2x5/16" z=14	120
508	Steel single chain sprocket 1/2x5/16" z=14	122
510	Steel double chain sprocket 5/8x3/8" z=15	124
511	Steel single chain sprocket 5/8x3/8" z=15	126
512	Steel double chain sprocket 3/4x7/16" z=13	128
513	Steel single chain sprocket 3/4x7/16" z=13	130
516	Thermoplastic synthetic material - tooth belt wheel T8 z=30 Polychain	132
517 z24/25	Thermoplastic synthetic material - tooth belt wheel T8 z=24, 25 HTD	134
517 z30/34	Thermoplastic synthetic material - tooth belt wheel T8 z=30, 34 HTD	136
518	Thermoplastic synthetic material - double chain sprocket 5/8x3/8" z=18	138
519	Thermoplastic synthetic material - single chain sprocket 5/8x3/8" z=18	140
520	Steel double chain sprocket 5/8x3/8" z=15	142
520 R	Steel double chain sprocket 5/8x3/8" z=15	144
521	Steel single chain sprocket 5/8x3/8" z=15	146
521 R	Steel double chain sprocket 5/8x3/8" z=15	148
522	Thermoplastic synthetic material - double chain sprocket 5/8x3/8" z=15	150
523	Thermoplastic synthetic material - single chain sprocket 5/8x3/8" z=15	152
533 R	Steel-tooth belt wheel T8 z=30, 34 HTD	154
534	Steel-tooth belt wheel T8 z=30, 34 HTD	156
539	Steel-Ripped-V-Belt PK profile	158









Shaft dimensions

Order Specific	ation	AM	AAGM	AIGM	Aglatt	AFA	
Shaft-Ø	EL=	EL	EL	EL		-))))-	
10	RL+		37	37		37	
S 11	RL+				37	37	
12	RL+	51	37	37		37	
14	RL+	53	37	37		37	
15	RL+		37	37			

Range of counter bearings for tube- and shaft combinations

Tube dia.	A10	ASK11	A12	A14	A15
50 x 1,5	302	302	302	302	302



Drive Element Thermoplastic synthetic material - Ripped-V-Belt PJ profile (DIN 7867)

Bearing Type Ball Bearing (Series 6202) DIN 625 available in 2RS, ZZ Standard Series 6202 ZZ

Load Capacity/Roller 500N (depending upon the load limit of tube and shaft)

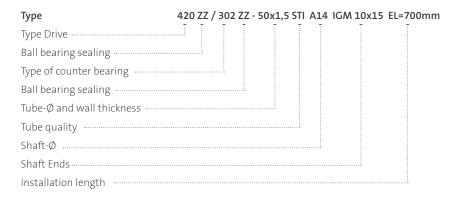
Max. Speed 1,2 m/s
Range of Temperature Celcius -5 to +40 C

Type of Drive Permanent drive, driving element fit positivly to the tube

Note Roller will be driven by belts with 2 or 3 ribs.

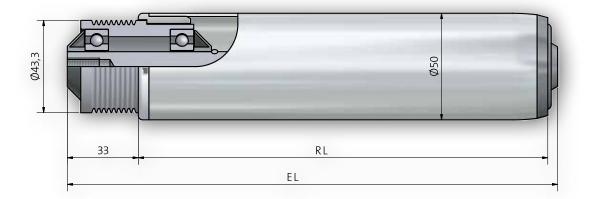
Antistatic version.

Order Example





Roller 421ST



Shaft dimensions

Order Specific	ation	AM	AAGM	AIGM	Aglatt	AFA	
Shaft-Ø	EL=	EL	_EL	EL		-))))-	
10	RL+		37	37		37	
S 11	RL+				37	37	
12	RL+	51	37	37		37	
14	RL+	53	37	37		37	
15	RL+		37	37			

Tube dia.
50 x 1,5



Roller 421ST

Drive Element Steel - Ripped-V-Belt PJ profile (DIN 7867)

Bearing Type Ball Bearing (Series 6202) DIN 625 available in 2RS, ZZ Standard Series 6202 ZZ

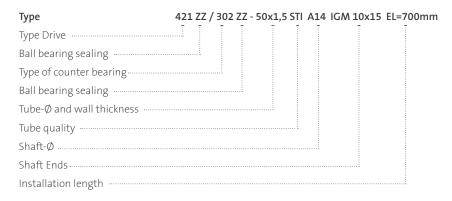
Load Capacity/Roller 500N (depending upon the load limit of tube and shaft)

Max. Speed 0,5 m/s Range of Temperature Celcius -5 to +40 C

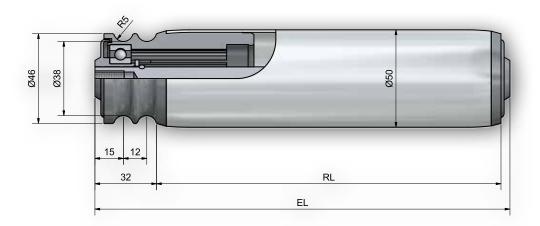
Type of Drive Accumulation drive with a pressure of 5% of the loaded material weight.

Note Roller will be driven by belts with 2 or 3 ribs.

Order Example







Shaft dimensions

Order Specific	ation	AM	AAGM	AIGM	Aglatt	AFA	
Shaft-Ø	EL=	EL	_EL	EL		-))))-	
10	RL+		37	37		37	
S 11	RL+				37	37	
12	RL+	51	37	37		37	
14	RL+	53	37	37		37	
15	RL+		37	37			

Tube dia.	A10	ASK11	A12	A14	A15
50 x 1.5	302	302	302	302	302



Drive Element Thermoplastic synthetic material - Round belt with two grooves

Bearing Type Ball Bearing (Series 6202) DIN 625 available in 2RS, ZZ Standard Series 6202 ZZ

Load Capacity/Roller 300N (depending upon the load limit of tube and shaft)

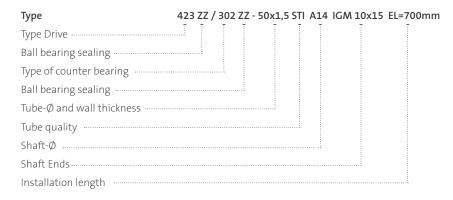
Max. Speed 1,2 m/s
Range of Temperature Celcius -5 to +40 C

Type of Drive Permanent drive, driving element fit positivly to the tube

Note Roller will be driven by round belts Ø 5mm.

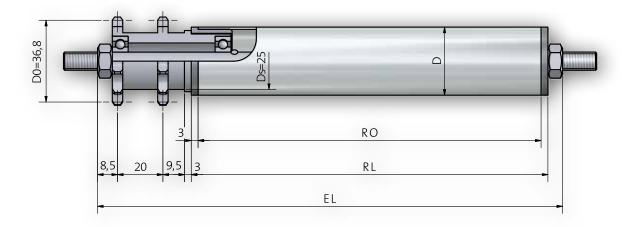
Antistatic version.

Order Example





Roller 432 / 433



Shaft dimensions

Order Specif	fication	A <i>l</i>	W	AIC	GM
Shaft-Ø	EL=	-		-	EL
		Type 50	Type 60	Type 50	Type 60
8	RL+	51	48	51	48

Tube dia.	A8
30 x 1	50/51/60
30 x 1,8 KB/KGH	50/51/60
32 x 2	50/51/60



Roller 432 / 433

Drive Element Steel - Double Sprocket 3/8" x 7/32" z=12

Bearing Type Ball Bearing (Series 608) DIN 625 available in 2RS,

ZZ Standard Series 608 ZZ

Load Capacity/Roller 400N (depending upon the load limit of tube and shaft)

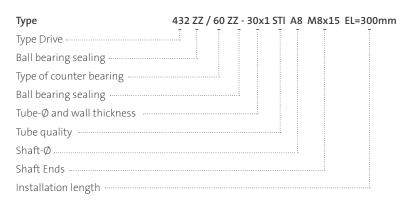
Max. Speed 0,5 m/s Range of Temperature Celcius -5 to +40 C

Type of Drive Type 432 Accumulation drive with a pressure of 5% of the loaded material weight

Type 433 Permanent drive, driving element fit positivly to the tube by a bushing

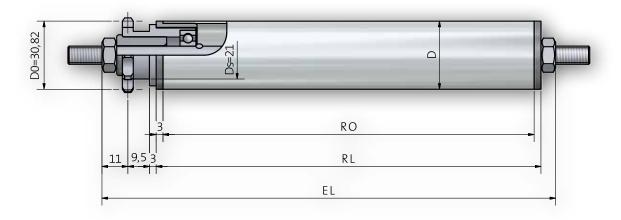
Note Permanent drive only for continuous conveying.

Order Example





Roller 435 / 436



Shaft dimensions

Order Specif	fication	AI	M	AIC	5M
Shaft-Ø	EL=	-			EL
		Type 50	Type 60	Type 50	Type 60
8	RL+	33	30	33	30

Tube dia.	A8
30 x 1	50/51/60
30 x 1,8 KB/KGH	50/51/60
32 x 2	50/51/60



Roller 435 / 436

Drive Element Steel - Single Sprocket 3/8" x 7/32" z=10 Bolt Tooth Form

Bearing Type Ball Bearing (Series 608) DIN 625 available in 2RS,

ZZ Standard Series 608 ZZ

Load Capacity/Roller 400N (depending upon the load limit of tube and shaft)

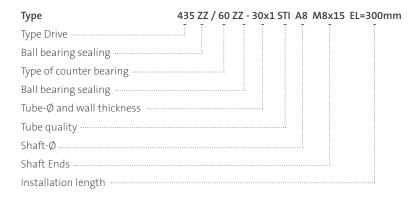
Max. Speed 0,3 m/s Range of Temperature Celcius -5 to +40 C

Type of Drive Type 435 Accumulation drive with a pressure of 5% of the loaded material weight

Type 436 Permanent drive, driving element fit positivly to the tube by a bushing

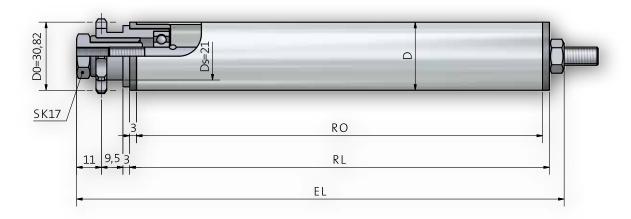
Note Permanent drive only for continuous conveying.

Order Example





Roller 437 / 438



Shaft dimensions

Order Specif	ication	A <i>N</i>	۸
Shaft-Ø	EL=		
		Type 50	Type 60
8	RL+	33	30

Tube dia.	A8
30 x 1	60
30 x 1,8 KB/KGH	60
32 x 2	60



Roller 437 / 438

Drive Element Steel - Single Sprocket 3/8" x 7/32" z=10 Bolt Tooth Form

Bearing Type Ball Bearing (Series 608) DIN 625 available in 2RS,

ZZ Standard Series 608 ZZ

Load Capacity/Roller 400N (depending upon the load limit of tube and shaft)

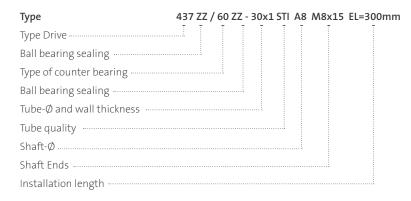
Max. Speed 0,3 m/s Range of Temperature Celcius -5 to +40 C

Type of Drive Type 437 Accumulation drive with a pressure of 5% of the loaded material weight

Type 438 Permanent drive, driving element fit positivly to the tube by a bushing

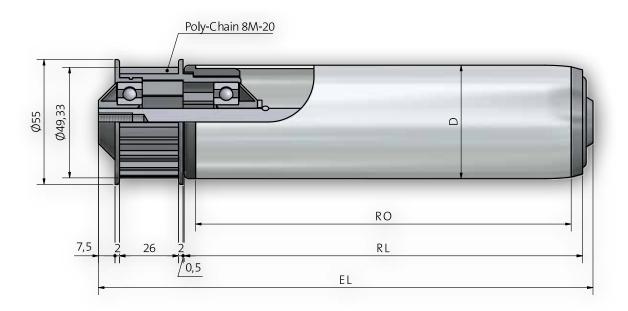
Note Permanent drive only for continuous conveying.

Order Example





Roller 445 / 446



Shaft dimensions

Order Specif	ication	AM	AIGM
Shaft-Ø	EL=		EL
12	RL+	58	44
14	RL+	60	44
15	RL+	60	44

Tube dia.	A12	A14	A15
50 x 1,5	250 / 300 / 302	250 / 300 / 302	251 / 302
50 x 2	250 / 300	250 / 300	251
50 x 2,8 KB/KGH	300	300	
50 x 3	250 / 300	250/300	251
60,3 x 1,65	300	300	301
60 x 2	250 / 300 / 302	250 / 300 / 302	251/302
60 x 3	250 / 300	250 / 300	251
63 x 3 KB/KGH	300	300	
63,5 x 2,9	300	300	301
80 x 2	300	300	301

Optional	Coatings Page 10



Roller 445 / 446

Drive Element Thermoplastic synthetic material - Tooth Belt 8M z=20 (Poly-Chain)

Bearing Type Ball Bearing (Series 6202) DIN 625 available in 2RS, ZZ Standard Series 6202 ZZ

Load Capacity/Roller 600N (depending upon the load limit of tube and shaft)

Max. Speed 0,8 m/s Range of Temperature Celcius -5 to +40 C

Type of Drive Type 445 Accumulation drive with a pressure of 5% of the loaded material weight

Type 446 Permanent drive, driving element fit positivly to the tube by a bushing

Note Permanent drive only for continuous conveying - for Stop-And-Go use Type 447.

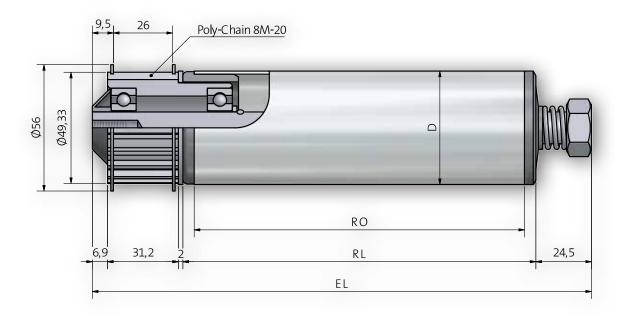
For rough materials use adjustable accumulation roller (Type 454R ST).

Order Example

Туре	445 ZZ	/ 302 ZZ -	50x1,5 ST	A14	IGM 10x15	EL=700mm
Type Drive	[Ī	Ī	Ī	
Ball bearing sealing						
Type of counter bearing		!				
Ball bearing sealing						
Tube-Ø and wall thickness						
Tube quality						
Shaft-Ø						
Shaft Ends						
Installation length						



Roller 445R ST



Shaft dimensions

Order Specifica	tion	AIGM	
Shaft-Ø	EL=	- <u>====================================</u>	
15	RL+	64	

Tube dia.	A15
50 x 1,5	301 / 302 / 402WT
50 x 2	301
50 x 2,8 KB/KGH	301
50 x 3	301
60,3 x 1,65	301
60 x 2	301 / 302 / 402WT
60 x 3	301 / 402WT
63 x 3 KB/KGH	301
63,5 x 2,9	301 / 402WT
80 x 2	301 / 402WT

ptional Coatings Page 10



Roller 445R ST

Drive Element Steel - Tooth Belt 8M z=20 (Poly-Chain)

Bearing Type Ball Bearing (Series 6202) DIN 625 available in 2RS, ZZ Standard Series 6202 ZZ

Load Capacity/Roller 1.000N (depending upon the load limit of tube and shaft)

Max. Speed 0,8 m/s Range of Temperature Celcius -5 to +40 C

Type of Drive Accumulation drive with a pressure of 5% of the loaded material weight

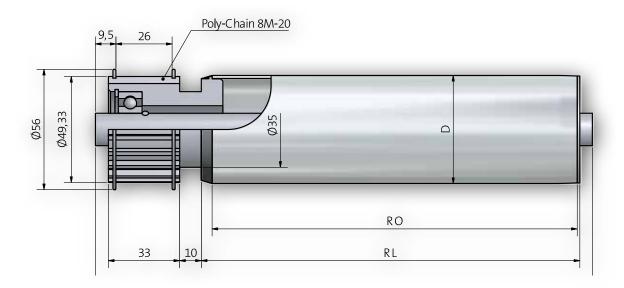
(depending on adjustment).

Note Accumulation pressure to be adjusted manually.

Order Example

Туре		STI A15	IGM 10x15	EL=700mm
Type Drive				
Ball bearing sealing				
Type of counter bearing	 			
Ball bearing sealing	 			
Tube-Ø and wall thickness	 			
Tube quality	 	 		
Shaft-Ø	 	 		
Shaft Ends	 	 		
Installation length	 	 		<u>.</u>





Shaft dimensions

Order Specifi	cation	AM	AIGM
Shaft-Ø	EL=	- EL	EL
15	RL+	70	54
17	RL+	70	54

Tube dia.	A15	A17
50 x 1,5	250	250
50 x 2	250	250
50 x 3	250	250
60,3 x 1,65		
60 x 2	250	250
60 x 3	250	250
63,5 x 2,9		
80 x 2	250 / 260	250 / 260
80 x 3	250	250 / 260
88,9 x 2,9		260

Optional	Coatings Page 10			
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Drive Element Steel - Tooth Belt 8M z=20 (Poly-Chain)

Bearing Type Ball Bearing (Series 6202) DIN 625 available in 2RS, ZZ Standard Series 6202 ZZ

Load Capacity/Roller 1.500N (depending upon the load limit of tube and shaft)

Max. Speed 1,2 m/s Range of Temperature Celcius -5 to +40 C

Type of Drive Permanent drive, driving element welded to the tube

Note With special Bearings these roller can even be used in deep freeze areas.

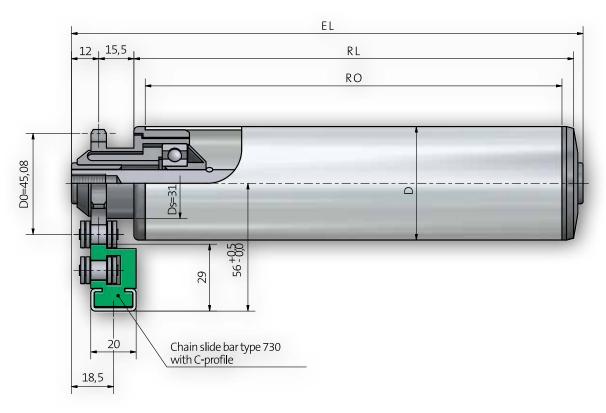
Please mention required features when placing order.

Order Example

Туре	447 ZZ /	250 ZZ -	50x1,5 ST	I A14	IGM 10x15	EL=700mm
Type Drive						
Ball bearing sealing						
Type of counter bearing						
Ball bearing sealing						
Tube-Ø and wall thickness						
Tube quality						
Shaft-Ø						
Shaft Ends						
Installation length						



Roller 450 / 451



Shaft dimensions

Order Specif	fication	AM	AIGM
Shaft-Ø	EL=	- <u>-</u>	EL
10	RL+	45	
12	RL+	47	33
14	RL+	49	33

A10	A12	A14
250 / 300 / 302	250 / 300 / 302	250 / 300 / 302
250 / 300	250 / 300	250 / 300
300	300	300
300	300	300
300	300	300
250 / 300 / 302	250 / 300 / 302	250 / 300 / 302
300	300	300
250 / 300	250 / 300	250 / 300
300	300	300
	250 / 300 / 302 250 / 300 300 300 300 250 / 300 / 302 300 250 / 300	250/300/302 250/300/302 250/300 250/300 300 300 300 300 300 300 250/300/302 250/300/302 300 300 250/300 250/300



Roller 450 / 451

Drive Element Thermoplastic synthetic material - Single Sprocket 1/2" x 5/16" z=11 Bolt Tooth

Form

Bearing Type Ball Bearing (Series 6202, 6003) DIN 625 available in 2RS, ZZ Standard Series 6202

ZZ

Load Capacity/Roller 400N (depending upon the load limit of tube and shaft)

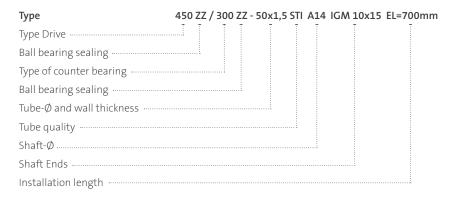
Max. Speed 0,3 m/s
Range of Temperature Celcius -5 to +40 C

Type of Drive Type 450 Accumulation drive with a pressure of 5% of the loaded material weight

Type 451 Permanent drive, driving element fit positivly to the tube by a bushing

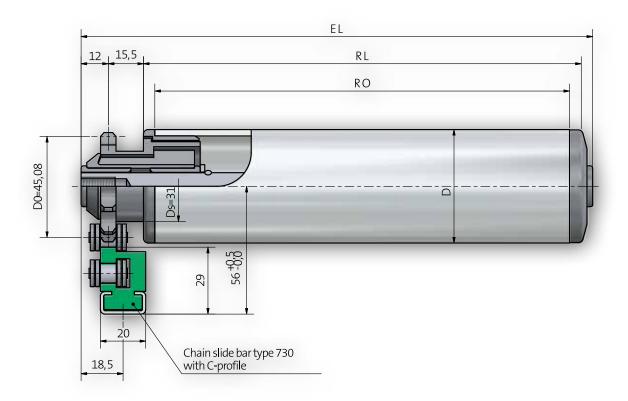
Note Permanent drive only for continuous conveying.

Order Example





Roller 452 / 453



Shaft dimensions

Order Specif	ication	AM	AIGM
Shaft-Ø	EL=	- E L	EL
10	RL+	45	
12	RL+	47	33
14	RL+	49	33

Tube dia.	A10	A12	A14
50 x 1,5	150	150	150
50 x 2	150	150	150
50 x 2,8 KB/KGH	150	150	150
60,3 x 1,65	150	150	150
63 x 3 KB/KGH	150	150	150
60 x 2	150	150	150
70 x 2	150	150	150
80 x 2	150	150	150
90 x 7 KB/KGH	150	150	150



Roller 452 / 453

Drive Element Thermoplastic synthetic material - Single Sprocket 1/2" x 5/16" z=11 Bolt Tooth

Form

Bearing Type Slide bearing bushes

Load Capacity/Roller 400N (depending upon the load limit of tube and shaft)

Max. Speed 0,3 m/s Range of Temperature Celcius -5 to +40 C

Type of Drive Type 452 Accumulation drive with a pressure of 5% of the loaded material weight

Type 453 Permanent drive, driving element fit positivly to the tube by a bushing

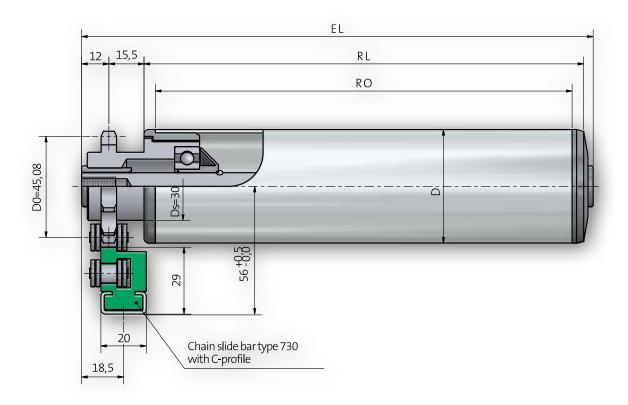
Note Permanent drive only for continuous conveying.

Order Example

Туре	452 / 150	ZZ - 50	x1,5 STI	A12	IGM 10x15	EL=700mm
Type Drive		Ī				
Type of counter bearing						
Ball bearing sealing		!				
Tube-Ø and wall thickness						
Tube quality						
Shaft-Ø						
Shaft Ends						
Installation length						



Roller 454 / 455



Shaft dimensions

Order Specif	ication	AM	AIGM
Shaft-Ø	EL=	-EL	EL
10	RL+	45	
12	RL+	47	33
14	RL+	49	33
17	RL+	49	33

Tube dia.	A10	A12	A14	A17
50 x 1,5	250 / 300 / 302	250 / 300 / 302	250 / 300 / 302	301
50 x 2	250 / 300	250 / 300	250 / 300	301
50 x 2,8 KB/KGH	300	300	300	301
60,3 x 1,65	300	300	300	301
60 x 2	250 / 300 / 302	250 / 300 / 302	250 / 300 / 302	301/402
60 x 3	250 / 300	250 / 300	250 / 300	301
63 x 3 KB/KGH	300	300	300	301
63,5 x 2,9	300	300	300	402
70 x 2	300	300	300	301
80 x 2	250 / 300	250 / 300	250 / 300	301 / 402
90 x 7 KB/KGH	300	300	300	

|--|



Roller 454 / 455

Drive Element Steel - Single Sprocket 1/2" x 5/16" z=11 Bolt Tooth Form

Bearing Type Ball Bearing (Series 6202, 6003) DIN 625 available in 2RS, ZZ Standard Series 6202

ZZ

Load Capacity/Roller 1.000N (depending upon the load limit of tube and shaft)

Max. Speed 0,3 m/s Range of Temperature Celcius -5 to +40 C

Type of Drive Type 454 Accumulation drive with a pressure of 5% of the loaded material weight

Type 455 Permanent drive, driving element fit positivly to the tube by a bushing

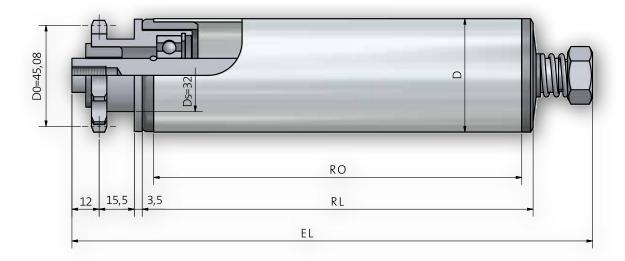
Note Permanent drive only for continuous conveying.

Order Example

Туре	454 ZZ / 300 Z	Z - 50x1,5 ST	I A14 IGM	10x15 EL=700mm
Type Drive ·····			Ī	
Ball bearing sealing				
Type of counter bearing				
Ball bearing sealing				
Tube-Ø and wall thickness				
Tube quality				
Shaft-Ø				
Shaft Ends				
Installation length				



Roller 454R



Shaft dimensions

Order Specific	ation	AIGM	
Shaft-Ø	EL=	EL	
15	RL+	56	

Tube dia.	A15
50 x 1,5	301 / 302 / 402WT
50 x 2	301
50 x 2,8 KB/KGH	301
50 x 3	301
60,3 x 1,65	301
60 x 2	301/302/402WT
60 x 3	301 / 402WT
63 x 3 KB/KGH	301
63,5 x 2,9	301 / 402WT
80 x 2	301 / 402WT

Optional	Coatings Page 10			
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Roller 454R

Drive Element Steel - Single Sprocket 1/2" x 5/16" z=11 Bolt Tooth Form

Bearing Type Ball Bearing (Series 6202) DIN 625 available in 2RS, ZZ Standard Series 6202 ZZ

Load Capacity/Roller 1.000N (depending upon the load limit of tube and shaft)

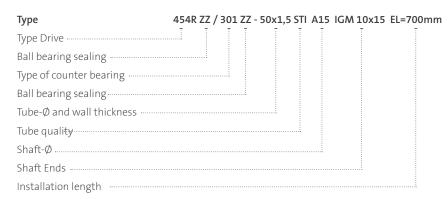
Max. Speed 0,3 m/s Range of Temperature Celcius -5 to +40 C

Type of Drive Accumulation drive with a pressure of 5% of the loaded material weight

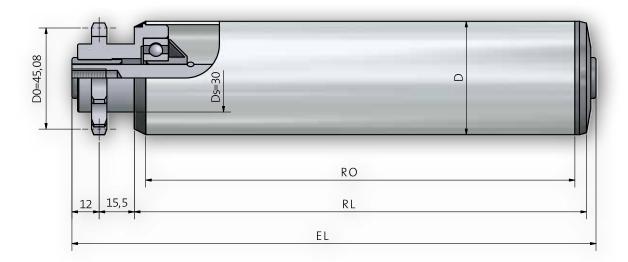
(depending on adjustment)

Note Accumulation pressure to be adjusted manually.

Order Example







Shaft dimensions

Order Specifi	ication	AM	AIGM
Shaft-Ø	EL=		EL
10	RL+	45	
12	RL+	47	33
14	RL+	49	33
17	RL+	49	33

Tube dia.	A10	A12	A14	A17
50 x 1,5	250 / 300 / 302	250 / 300 / 302	250 / 300 / 302	250
50 x 2	250 / 300	250 / 300	250 / 300	250
60,3 x 1,65	300	300	300	
60 x 2	250 / 300 / 302	250 / 300 / 302	250 / 300 / 302	250 / 402
60 x 3	250 / 300	250 / 300	250 / 300	250
63,5 x 2,9	300	300		301
70 x 2	300	300	300	250
80 x 2	250 / 300	250 / 300	250 / 300	250 / 402

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Drive Element Steel - Single Sprocket 1/2" x 5/16" z=11Bolt Tooth Form

Bearing Type Ball Bearing (Series 6003, 6202, 6303) DIN 625 available in 2RS, ZZ Standard

Series 6202 ZZ

Load Capacity/Roller 1.000N (depending upon the load limit of tube and shaft)

Max. Speed 0,3 m/s Range of Temperature Celcius -5 to +40 C

Type of Drive Permanent drive, driving element welded to the tube

Note With special Bearings these roller can even be used in deep freeze areas.

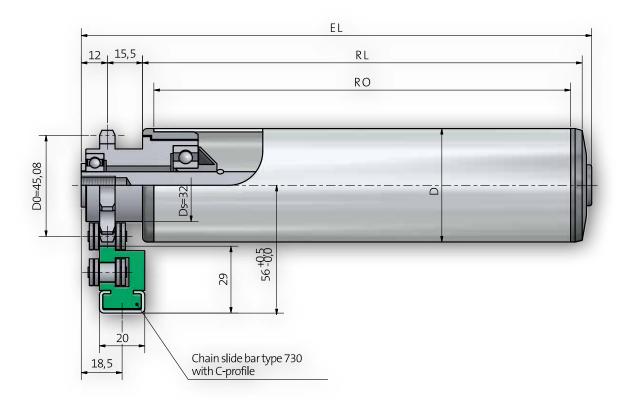
Please mention required features when placing order.

Order Example

Туре	456 ZZ / 300 Z	Z - 60x2 STI	A14 I	GM 8x15	EL=700mm
Type Drive				Ī	Ī
Ball bearing sealing					
Type of counter bearing					
Ball bearing sealing					
Tube-Ø and wall thickness					
Tube quality					
Shaft-Ø					
Shaft Ends				İ	
Installation length					



Roller 457 / 458



Shaft dimensions



Tube dia.	A12
50 x 1,5	250 / 300 / 302
50 x 2	250 / 300
50 x 2,8 KB/KGH	300
60,3 x 1,65	300
60 x 2	250 / 300 / 302
60 x 3	250 / 300
63 x 3 KB/KGH	300
63,5 x 2,9	300
70 x 2	300
80 x 2	250 / 300
90 x 7 KB/KGH	300

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Roller 457 /458

Drive Element Steel - Single Sprocket 1/2" x 5/16" z=11

Bearing Type Ball Bearing (Series 6202, 6003) DIN 625 available in 2RS,

ZZ Standard Series 6202 ZZ

Load Capacity/Roller 1.000N (depending upon the load limit of tube and shaft)

Max. Speed 0,3 m/s
Range of Temperature Celcius -5 to +40 C

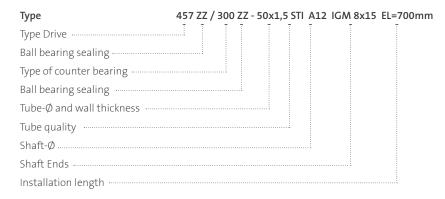
Type of Drive Type 457 Accumulation drive with a pressure of 5% of the loaded material weight

Type 458 Permanent drive, driving element fit positivly to the tube by a bushing

Note Permanent drive only for continuous conveying.

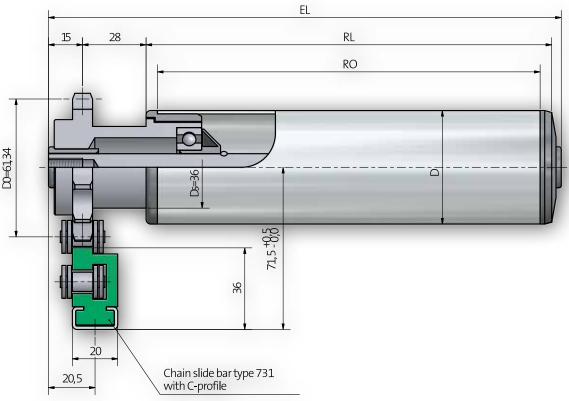
Roller can even be used as idler.

Order Example





Roller 462 / 463



Shaft dimensions

Order Specif	ication	AM	AIGM
Shaft-Ø	EL=		EL
10	RL+	61	
12	RL+	63	49
14	RL+	65	49
17	RL+	65	49

Tube dia.	A10	A12	A14	A17
50 x 1,5	250 / 300 / 302	250/300/302	250 / 300 / 302	301
50 x 2	250 / 300	250 / 300	250 / 300	301
50 x 2,8 KB/KGH	300	300	300	301
60,3 x 1,65	300	300	300	301
60 x 2	250 / 300 / 302	250 / 300 / 302	250 / 300 / 302	301/402
60 x 3	250 / 300	250 / 300	250 / 300	301
63 x 3 KB/KGH	300	300	300	301
63,5 x 2,9	300	300	300	402
70 x 2	300	300	300	301
80 x 2	250 / 300	250 / 300	250 / 300	301/402
90 x 7 KB/KGH	300	300	300	

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Roller 462 / 463

Drive Element Steel - Single Sprocket 5/8" x 3/8" z=12 Bolt Tooth Form

Bearing Type Ball Bearing (Series 6003, 6202, 6303) DIN 625 available in 2RS, ZZ Standard

Series 6202 ZZ

Load Capacity/Roller 1.000N (depending upon the load limit of tube and shaft)

Max. Speed 0,3 m/s
Range of Temperature Celcius -5 to +40 C

Type of Drive Type 462 Accumulation drive with a pressure of 5% of the loaded material weight

Type 463 Permanent drive, driving element fit positivly to the tube by a bushing

Note Permanent drive only for continuous conveying - for Stop-And-Go use Type 464.

For rough materials use adjustable accumulation roller (Type 462R).

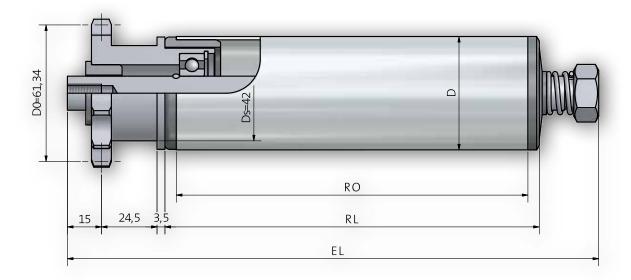
Accumulation roller not with shaft dia. 17 mm.

Order Example

Туре	462 ZZ / 300	0 ZZ -	60x2 ST	A14	IGM 8x15	EL=700mm
Type Drive				Ī	Ī	
Ball bearing sealing						
Type of counter bearing						
Ball bearing sealing						
Tube-Ø and wall thickness						
Tube quality						
Shaft-Ø						
Shaft Ends						
Installation length						



Roller 462R



Shaft dimensions

Order Specifica	tion	AIGM	
Shaft-Ø	EL=	- EL	
15	RL+	68	

Tube dia.	A15
50 x 1,5	301 / 302 / 402WT
50 x 2	301
50 x 2,8 KB/KGH	301
50 x 3	301
60,3 x 1,65	301
60 x 2	301 / 302 / 402WT
60 x 3	301 / 402WT
63 x 3 KB/KGH	301
63,5 x 2,9	301 / 402WT
80 x 2	301 / 402WT

Optional Coat	ings Page 10
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Roller 462R

Drive Element Steel - Single Sprocket 5/8" x 3/8" z=12 Bolt Tooth Form

Bearing Type Ball Bearing (Series 6003, 6202, 6304) DIN 625 available in 2RS,

ZZ Standard Series 6202 ZZ

Load Capacity/Roller 1.000N (depending upon the load limit of tube and shaft)

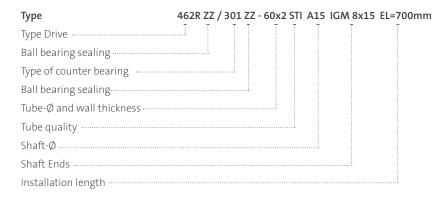
Max. Speed 0,3 m/s
Range of Temperature Celcius -5 to +40 C

Type of Drive Accumulation drive with a pressure of 5% of the loaded material weight

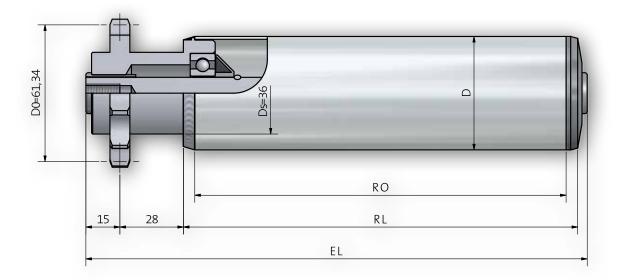
(depending on adjustment)

Note Accumulation pressure to be adjusted manually.

Order Example







Shaft dimensions

Order Specifi	ication	AM	AIGM
Shaft-Ø	EL=		EL
10	RL+	61	
12	RL+	63	49
14	RL+	65	49
17	RL+	65	49

Tube dia.	A10	A12	A14	A17
50 x 1,5	250 / 300 / 302	250 / 300 / 302	250 / 300 / 302	250
50 x 2	250 / 300	250 / 300	250 / 300	250
50 x 2,8 KB/KGH	300	300	300	
60,3 x 1,65	300	300	300	
60 x 2	250 / 300 / 302	250 / 300 / 302	250 / 300 / 302	250 / 402
60 x 3	250 / 300	250 / 300	250 / 300	250
63 x 3 KB/KGH	300	300	300	
63,5 x 2,9	300	300	300	402 / 250
70 x 2	300	300	300	
80 x 2	250 / 300	250 / 300	250 / 300	250 / 402
90 x 7 KB/KGH	300	300	300	



Drive Element Steel - Single Sprocket 5/8" x 3/8" z=12 Bolt Tooth Form

Bearing Type Ball bearing (Serie 6003, 6202, 6303) DIN 625 available in 2RS,

ZZ Standard Serie 6202 ZZ

Load Capacity/Roller 1.500N (depending upon the load limit of tube and shaft)

Max. Speed 0,3 m/s Range of Temperature Celcius -5 to +40 C

Type of Drive Permanent drive, driving element welded to the tube

Note With special Bearings these roller can even be used in deep freeze areas.

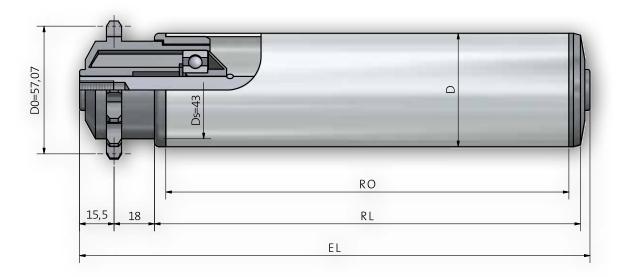
Please mention required features when placing order.

Order Example

Туре				IGM 8x15	EL=700mm
Type Drive	I [Ī	Ī	Ī
Ball bearing sealing					
Type of counter bearing					
Ball bearing sealing					
Tube-Ø and wall thickness		 			
Tube quality		 			
Shaft-Ø					
Shaft Ends		 			
Installation length		 			



Roller 470 / 471



Shaft dimensions

Order Specification		AM	AIGM
Shaft-Ø	EL=	- E L	EL
10	RL+	51	
12	RL+	53	39
14	RL+	55	39

Tube dia.	A10	A12	A14
50 x 1,5	250 / 300 / 302	250 / 300 / 302	250 / 300 / 302
50 x 2	250 / 300	250 / 300	250 / 300
50 x 2,8 KB/KGH	300	300	300
60,3 x 1,65	300	300	300
63 x 3 KB/KGH	300	300	300
60 x 2	250 / 300 / 302	250 / 300 / 302	250 / 300 / 302
70 x 2	300	300	300
80 x 2	250 / 300	250 / 300	250 / 300
90 x 7 KB/KGH	300	300	300



Roller 470 /471

Drive Element Thermoplastic synthetic material - Single Sprocket 1/2" x 5/16" z=14 Bolt Tooth Form

Bearing Type Ball Bearing (Series 6202) DIN 625 available in 2RS, ZZ Standard Series 6202 ZZ

Load Capacity/Roller 400N (depending upon the load limit of tube and shaft)

Max. Speed 0,3 m/s Range of Temperature Celcius -5 to +40 C

Type of Drive Type 470 Accumulation drive with a pressure of 5% of the loaded material weight

Type 471Permanent drive, driving element fit positivly to the tube by a bushing

Note Permanent drive only for continuous conveying - for Stop-And-Go use Type 508.

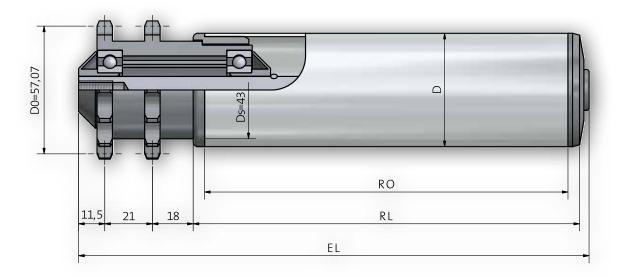
For rough materials use adjustable accumulation roller (Type 506R).

Order Example

Туре	470 ZZ /	/ 300 ZZ	- 50x1,5 ST	I A14	IGM 8x15	EL=700mm
Type Drive				Ī	Ī	Ī
Ball bearing sealing						
Type of counter bearing						
Ball bearing sealing						
Tube-Ø and wall thickness						
Tube quality						
Shaft-Ø						
Shaft Ends						
Installation length						



Roller 480 / 481



Shaft dimensions

Order Specifi	ication	AM	AIGM
Shaft-Ø	EL=	- EL	EL
10	RL+	69	
12	RL+	71	57
14	RL+	73	57

Tube dia.	A10	A12	A14
50 x 1,5	250 / 300 / 302	250 / 300 / 302	250 / 300 / 302
50 x 2	250 / 300	250 / 300	250 / 300
50 x 2,8 KB/KGH	300	300	300
60,3 x 1,65	300	300	300
63 x 3 KB/KGH	300	300	300
60 x 2	250 / 300 / 302	250 / 300 / 302	250 / 300 / 302
70 x 2	300	300	300
80 x 2	250 / 300	250 / 300	250 / 300
90 x 7 KB/KGH	300	300	300



Roller 480 / 481

Drive Element Thermoplastic synthetic material - Double Sprocket 1/2" x 5/16" z=14

Bearing Type Ball Bearing (Series 6202) DIN 625 available in 2RS, ZZ Standard Series 6202 ZZ

Load Capacity/Roller 400N (depending upon the load limit of tube and shaft)

Max. Speed 0,5 m/s Range of Temperature Celcius -5 to +40 C

Type of Drive Type 480 Accumulation drive with a pressure of 5% of the loaded material weight

Type 481 Permanent drive, driving element fit positivly to the tube by a bushing

Note Permanent drive only for continuous conveying - for Stop-And-Go use Type 502.

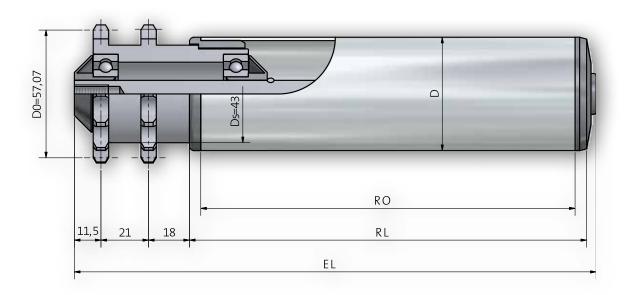
For rough materials use adjustable accumulation roller (Type 500R).

Order Example

Туре	480 ZZ /	300 ZZ	- 50x1,5	STI A14	IGM 8x15	EL=700mm
Type Drive		ĪĪ	Ī		Ī	Ī
Ball bearing sealing						
Type of counter bearing						
Ball bearing sealing						
Tube-Ø and wall thickness						
Tube quality				!		
Shaft-Ø						
Shaft Ends						
Installation length						



Roller 500 / 501



Shaft dimensions

Order Specifi	ication	AM	AIGM
Shaft-Ø	EL=	- E	EL
10	RL+	69	
12	RL+	71	57
14	RL+	73	57
15	RL+	73	57
17	RL+	73	57

Tube dia.	A10	A12	A14	A17
50 x 1,5	250 / 300 / 302	250 / 300 / 302	250 / 300 / 302	301
50 x 2	250 / 300	250 / 300	250 / 300	301
50 x 2,8 KB/KGH	300	300	300	
60,3 x 1,65	300	300	300	
60 x 2	250 / 300 / 302	250 / 300 / 302	250 / 300 / 302	301/402
60 x 3	250 / 300	250 / 300	250 / 300	301
63 x 3 KB/KGH	300	300	300	
63,5 x 2,9	300	300	300	402
70 x 2	300	300	300	
80 x 2	250 / 300	250 / 300	250 / 300	301/402
90 x 7 KB/KGH	300	300	300	

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Roller 500 / 501

Drive Element Steel - Double Sprocket 1/2" x 5/16" z=14

Bearing Type Ball bearing (Series 6202, 6003) DIN 625 available in 2RS, ZZ Standard Series 6202

ZZ

Load Capacity/Roller 1.000N (depending upon the load limit of tube and shaft)

Max. Speed 0,5 m/s
Range of Temperature Celcius -5 to +40 C

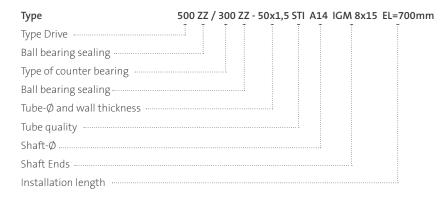
Type of Drive Type 500 Accumulation drive with a pressure of 5% of the loaded material weight

Type 501 Permanent drive, driving element fit positivly to the tube by a bushing

Note Permanent drive only for continuous conveying - for Stop-And-Go use Type 502.

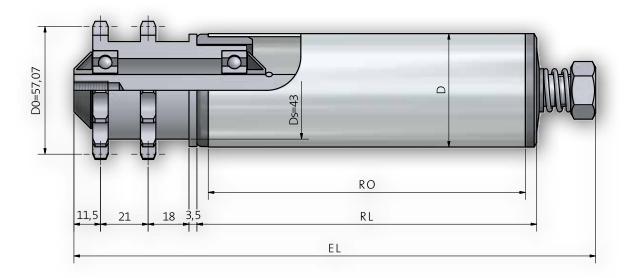
For rough materials use adjustable accumulation roller (Type 500R). Conveyor roller Type 500 is available as double friction roller Type 500DF.

Order Example





Roller 500R



Shaft dimensions

Order Specifica	tion	AIGM	
Shaft-Ø	EL=	EL	
14	RL+	79	
15	RL+	79	

Tube dia.	A15
50 x 1,5	301/302/402WT
50 x 2	301
50 x 2,8 KB/KGH	301
50 x 3	301
60,3 x 1,65	301
60 x 2	301/302/402WT
60 x 3	301/402WT
63 x 3 KB/KGH	301
63,5 x 2,9	301 / 402WT
70 x 2	301
80 x 2	301/402WT

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Roller 500R

Drive Element Steel - Double Sprocket 1/2" x 5/16" z=14

Bearing Type Ball Bearing (Series 6202) DIN 625 available in 2RS, ZZ Standard Series 6202 ZZ

Load Capacity/Roller 1.000N (depending upon the load limit of tube and shaft)

Max. Speed 0,5 m/s Range of Temperature Celcius -5 to +40 C

Type of Drive Accumulation drive with a pressure of 5% of the loaded material weight

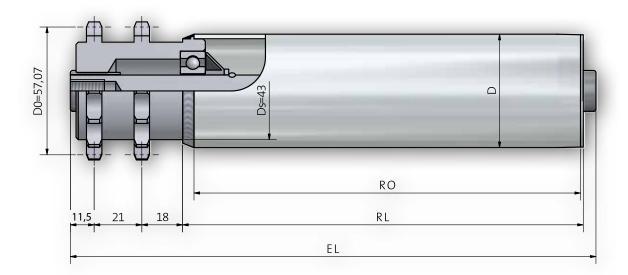
(depending on adjustment)

Note Accumulation pressure to be adjusted manually.

Order Example

Туре	500R ZZ / 3	01 ZZ -	50x1,5 ST	A14	IGM 8x15	EL=700mm
Type Drive ·····				Ī	-	Ī
Ball bearing sealing						
Type of counter bearing						
Ball bearing sealing						
Tube-Ø and wall thickness						
Tube quality						
Shaft-Ø						
Shaft Ends						
Installation length						





Shaft dimensions

Order Specifi	ication	AM	AIGM
Shaft-Ø	EL=		EL
10	RL+	69	
12	RL+	71	57
14	RL+	73	57
15	RL+	73	57
17	RL+	73	57

Tube dia.	A10	A12	A14	A15	A17	A20
40 x 1,5	290	250 / 290	290			
50 x 1,5	251	250 / 300 / 302	250 / 300 / 302	250/301/302	250	
50 x 2	250 / 300	250 / 300	250 / 300	250/301	250	
50 x 3	250 / 300	250 / 300	250 / 300	250/301	250	
60,3 x 1,65	300	300	300	301		
60 x 2	250/300/302	250 / 300 / 302	250 / 300 / 302	250/301/302	250	
60 x 3	250 / 300	250 / 300	250 / 300	250/301	250	
63,5 x 2,9	300	300	300			260
70 x 2	300	300	300			
70 x 2,9						260
80 x 2	250 / 300	250 / 300	250 / 300	250/301	250	260
80 x 3	250 / 300	250 / 300	250 / 300	250/301	250	260
88,9 x 2,9					260	260

Optional Co	Flange Page 236
ional Co	Flafige Page 23



Drive Element Steel - Double Sprocket 1/2" x 5/16" z=14

Bearing Type Ball bearing (Series 6202, 6003) DIN 625 available in 2RS, ZZ Standard Series 6202

ZZ

Load Capacity/Roller 1.500N (depending upon the load limit of tube and shaft)

Max. Speed 0,5 m/s Range of Temperature Celcius -5 to +40 C

Type of Drive Permanent drive, driving element welded to the tube

Note With special Bearings these roller can even be used in deep freeze areas.

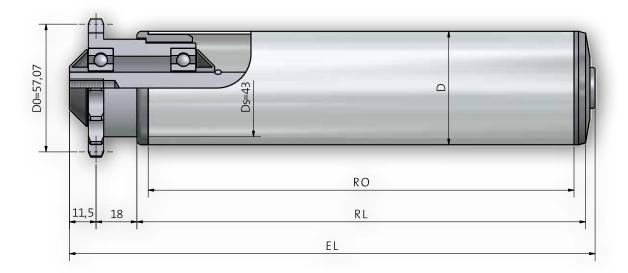
Please mention required features when placing order.

Order Example

Туре	502 ZZ /	250 ZZ	- 60x2 S	TI A14	IGM 8x15	EL=700mm
Type Drive					Ī	Ī
Ball bearing sealing						
Type of counter bearing						
Ball bearing sealing						
Tube-Ø and wall thickness						
Tube quality				1		
Shaft-Ø						
Shaft Ends						
Installation length						



Roller 506 / 507



Shaft dimensions

Order Specifi	ication	AM	AIGM
Shaft-Ø	EL=	- E	EL
10	RL+	48	
12	RL+	50	36
14	RL+	52	36
15	RL+	52	36
17	RL+	52	36

Tube dia.	A10	A12	A14	A17
50 x 1,5	250 / 300 / 302	250 / 300 / 302	250 / 300 / 302	250
50 x 2	250 / 300	250 / 300	250 / 300	250
50 x 2,8 KB/KGH	300	300	300	
60,3 x 1,65	300	300	300	
60 x 2	250 / 300 / 302	250 / 300 / 302	250 / 300 / 302	250 / 402
60 x 3	250 / 300	250 / 300	250 / 300	250
63 x 3 KB/KGH	300	300	300	
63,5 x 2,9	300	300	300	402
70 x 2	300	300	300	
80 x 2	250 / 300	250 / 300	250 / 300	250 / 402
90 x 7 KB/KGH	300	300	300	



Roller 506 / 507

Drive Element Steel - Single Sprocket 1/2" x 5/16" z=14 Bolt Tooth Form

Bearing Type Ball bearing (Series 6202, 6003) DIN 625 available in 2RS,

ZZ Standard Series 6202 ZZ

Load Capacity/Roller 1.000N (depending upon the load limit of tube and shaft)

Max. Speed 0,3 m/s
Range of Temperature Celcius -5 to +40 C

Type of Drive Type 506 Accumulation drive with a pressure of 5% of the loaded material weight

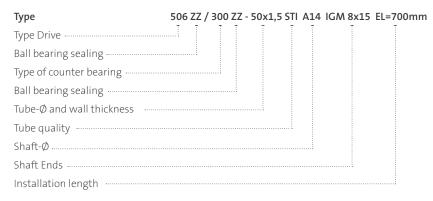
Type 507 Permanent drive, driving element fit positivly to the tube by a bushing

Note Permanent drive only for continuous conveying - for Stop-And-Go use Type 508.

For rough materials use adjustable accumulation roller(Type 506R).

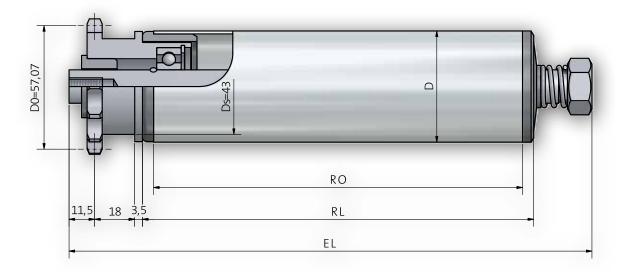
Conveyor roller Type 506 are even available as double friction roller Type 506DF.

Order Example





Roller 506R



Shaft dimensions

Order Specifica	tion	AIGM	
Shaft-Ø	EL=	- <u>EL</u>	
15	RL+	58	

Tube dia.	A15
50 x 1,5	301 / 302 / 402WT
50 x 2	301
50 x 2,8 KB/KGH	301
50 x 3	301
60,3 x 1,65	301
60 x 2	301/302/402WT
60 x 3	301/402WT
63 x 3 KB/KGH	301
63,5 x 2,9	301 / 402WT
80 x 2	301/402WT

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Roller 506R

Drive Element Steel - Single Sprocket 1/2" x 5/16" z=14 Bolt Tooth Form

Bearing Type Ball Bearing (Series 6202) DIN 625 available in 2RS,

ZZ Standard Series 6202 ZZ

Load Capacity/Roller 1.000N (depending upon the load limit of tube and shaft)

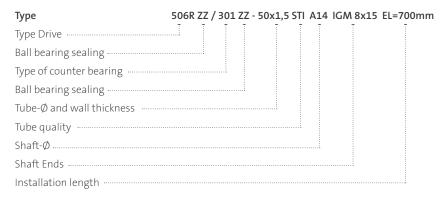
Max. Speed 0,3 m/s
Range of Temperature Celcius -5 to +40 C

Type of Drive Accumulation drive with a pressure of 5% of the loaded material weight

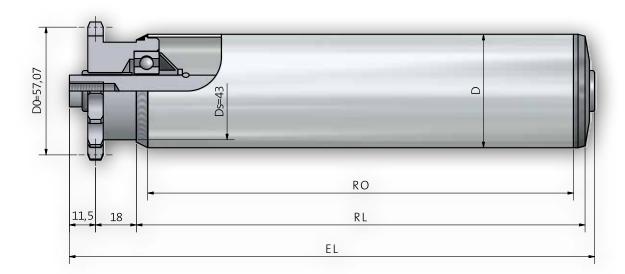
(depending on adjustment).

Note Accumulation pressure to be adjusted manually.

Order Example







Shaft dimensions

Order Specifi	ication	AM	AIGM
Shaft-Ø	EL=		EL
10	RL+	48	
12	RL+	50	36
14	RL+	52	36
15	RL+	52	36
17	RL+	52	36

Tube dia.	A10	A12	A14	A17
50 x 1,5	250 / 300 / 302	250 / 300 / 302	250 / 300 / 302	250
50 x 2	250 / 300	250 / 300	250 / 300	250
60,3 x 1,65	300	300	300	
60 x 2	250 / 300 / 302	250 / 300 / 302	250 / 300 / 302	250 / 402
60 x 3	250 / 300	250 / 300	250 / 300	250
63,5 x 2,9	300	300	300	402
70 x 2	300	300	300	
80 x 2	250 / 300	250 / 300	250 / 300	250 / 402

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Drive Element Steel - Single Sprocket 1/2" x 5/16" z=14 Bolt Tooth Form

Bearing Type Ball bearing (Series 6202, 6003) DIN 625 available in 2RS,

ZZ Standard Series 6202 ZZ

Load Capacity/Roller 1.500N (depending upon the load limit of tube and shaft)

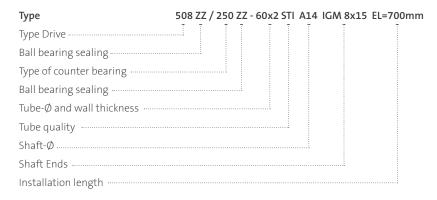
Max. Speed 0,3 m/s
Range of Temperature Celcius -5 to +40 C

Type of Drive Permanent drive, driving element welded to the tube

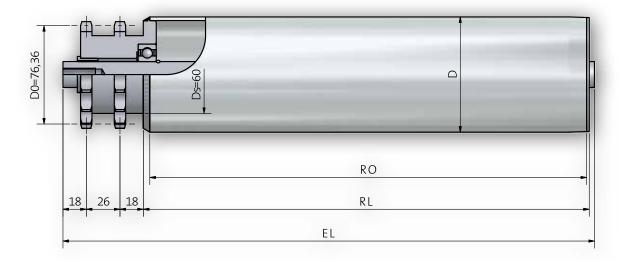
Note With special Bearings these roller can even be used in deep freeze areas.

Please mention required features when placing order.

Order Example







Shaft dimensions

Order Specifi	cation	AM	AIGM
Shaft-Ø	EL=	- EL	EL
20	RL+	85	67
25	RL+		67

Tube dia.	A20	A25
63,5 x 2,9	260	
80 x 2	260	260
80 x 3	260	260
88,9 x 2,9	260	260
108 x 3,25	260	260
133 x 3,6	402WO	402WO



Drive Element Steel - Double Sprocket 5/8" x 3/8" z=15

Bearing Type Ball Bearing (Series 6004, 6204, 6005) DIN 625 available in 2RS, ZZ

Load Capacity/Roller 3.400N (depending upon the load limit of tube and shaft)

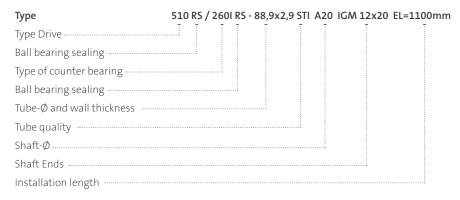
Max. Speed 0,5 m/s Range of Temperature Celcius -5 to +80 C

Type of Drive Permanent drive, driving element welded to the tube

Note With special Bearings these roller can even be used in deep freeze areas.

Please mention required features when placing order.

Order Example







Shaft dimensions

Order Specif	ication	AM	AIGM
Shaft-Ø	EL=	- E	EL
20	RL+	59	41
25	RL+		41

Tube dia.	A20	A25
63,5 x 2,9	260	
80 x 2	260	260
80 x 3	260	260
88,9 x 2,9	260	260
108 x 3,25	260	260
133 x 3,6	402WO	402WO



Drive Element Steel - Single Sprocket 5/8" x 3/8" z=15 Bolt Tooth Form

Bearing Type Ball Bearing (Series 6004, 6204, 6005) DIN 625 available in 2RS, ZZ

Load Capacity/Roller 3.400N (depending upon the load limit of tube and shaft)

Max. Speed 0,3 m/s Range of Temperature Celcius -5 to +80 C

Type of Drive Permanent drive, driving element welded to the tube

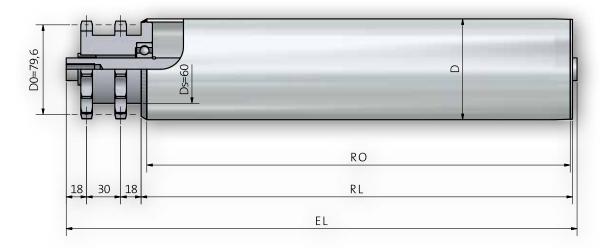
Note With special Bearings these roller can even be used in deep freeze areas.

Please mention required features when placing order.

Order Example

Туре	511 RS /	/ 260I RS	- 88,9x2	,9 STI <i>A</i>	420	IGM 12x20	EL=1100mm
Type Drive				Ī	Ī	Ī	Ī
Ball bearing sealing							
Type of counter bearing							
Ball bearing sealing							
Tube-Ø and wall thickness							
Tube quality							
Shaft-Ø							
Shaft Ends							
Installation length							





Shaft dimensions

Order Specifi	ication	AM	AIGM
Shaft-Ø	EL=	- EL	EL
20	RL+	89	71
25	RL+		71

Range of counter bearings for tube- and shaft combinations

Tube dia.	A20	A25
80 x 2	260	260
80 x 3	260	260
88,9 x 2,9	260	260
108 x 3,25	260	260
133 x 3,6	402WO	402WO

Optional Coatings Page 10 Flange Page 236



Drive Element Steel - Double Sprocket 3/4" x 7/16" Z=13

Bearing Type Ball Bearing (Series 6204, 6005) DIN 625 available in 2RS, ZZ Load Capacity/Roller 4.000N (depending upon the load limit of tube and shaft)

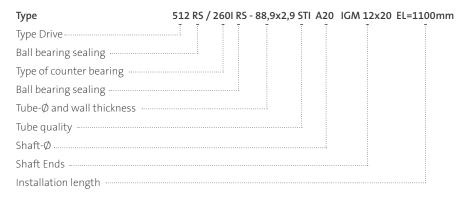
Max. Speed 0,5 m/s Range of Temperature Celcius -5 to +80 C

Type of Drive Permanent drive, driving element welded to the tube

Note With special Bearings these roller can even be used in deep freeze areas.

Please mention required features when placing order.

Order Example







Shaft dimensions

Order Specif	ication	AM	AIGM
Shaft-Ø	EL=	- E	EL
20	RL+	59	41
25	RL+		41

Range of counter bearings for tube- and shaft combinations

Tube dia.	A20	A25
80 x 2	260	260
80 x 3	260	260
88,9 x 2,9	260	260
108 x 3,25	260	260
133 x 3,6	402WO	402WO

Optional Coatings Page 10 Flange Page 236



Drive Element Steel - Single Sprocket 3/4" x 7/16" Z=13 Bolt Tooth Form

Bearing Type Ball Bearing (Series 6204, 6005) DIN 625 available in 2RS, ZZ Load Capacity/Roller 4.000N (depending upon the load limit of tube and shaft)

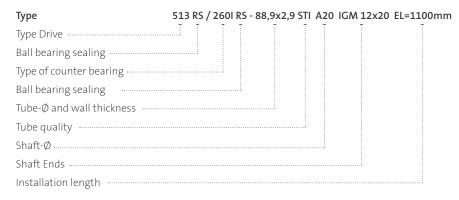
Max. Speed 0,3 m/s Range of Temperature Celcius -5 to +80 C

Type of Drive Permanent drive, driving element welded to the tube

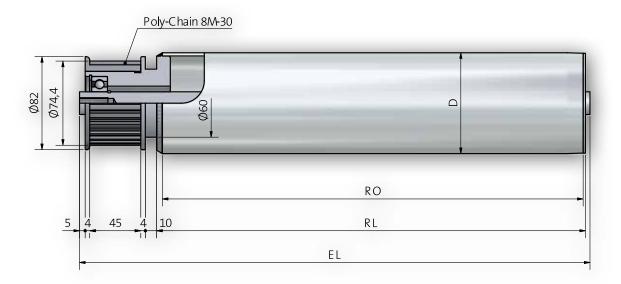
Note With special Bearings these roller can even be used in deep freeze areas.

Please mention required features when placing order.

Order Example







Shaft dimensions

Order Specifica	ation	AIGM	
Shaft-Ø	EL=	EL	
20	RL+	73	

Range of counter bearings for tube- and shaft combinations

Tube dia.	A20		
80 x 2	260		
80 x 3	260		
88,9 x 2,9	260		
108 x 3,25	260		

Optional Coatings Page 10 Flange Page 236



Drive Element Thermoplastic synthetic material - Tooth Belt Wheel 8M z=30 (Poly-Chain)

Bearing Type Ball Bearing (Series 6204) DIN 625 available in 2RS, ZZ
Load Capacity/Roller 1.800N (depending upon the load limit of tube and shaft)

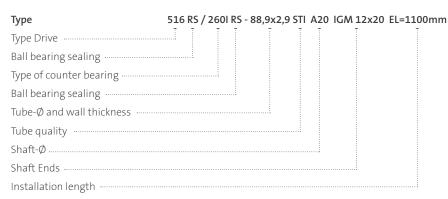
Max. Speed 0,8 m/s Range of Temperature Celcius -5 to +80 C

Type of Drive Permanent drive, welded steel core with thermoplastic synthetic

tooth element fit positivly

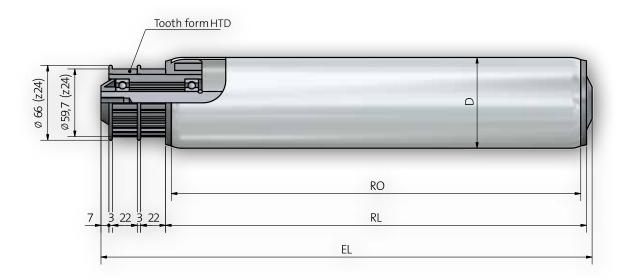
Note Roller will be driven by a 21mm wide tooth belt (Poly Chain).

Order Example





Roller 517 z24 / z25



Shaft dimensions

Order Specif	ication	AIGM
Shaft-Ø	EL=	<u> </u>
20	RL+	62

Range of counter bearings for tube- and shaft combinations

Tube dia.	A20	
80 x 2	402	
88,9 x 2,9	402	
108 x 3,25	402	

 Optional
 Coatings Page 10
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Roller 517 z24 / z25

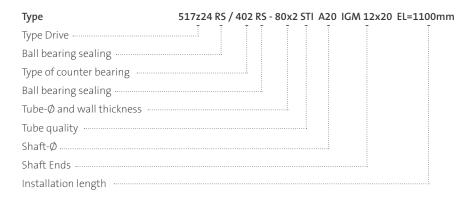
Drive Element Thermoplastic synthetic material - Tooth Belt Wheel 8M z=24/z=25 (HTD)

Bearing Type Ball Bearing (Series 6204) DIN 625 available in 2RS, ZZ Load Capacity/Roller 1.200N (depending upon the load limit of tube and shaft)

Max. Speed 0,8 m/s Range of Temperature Celcius -5 to +40 C

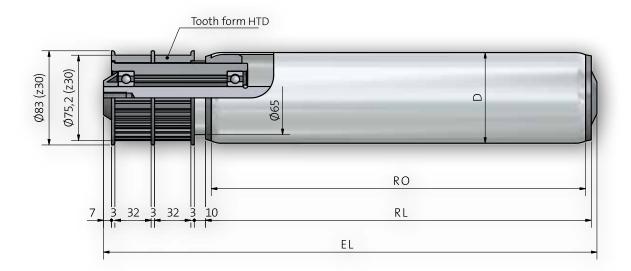
Type of Drive Permanent drive, tooth element fit positivly to the tube Note Roller will be driven by a 20mm wide tooth belt (HTD).

Order Example





Roller 517 z30 / z34



Shaft dimensions

Order Spe	cification	AIGM	
Shaft-Ø	EL=	<u>EL</u>	
20	RL+	95	
25	RL+	95	

Range of counter bearings for tube- and shaft combinations

Tube dia.	A20
80 x 2	402
88,9 x 2,9	402

Optional Coatings Page 10 Flange Page 236



Roller 517 z30 / z34

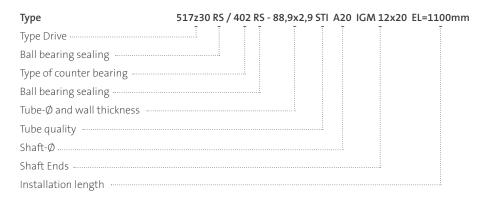
Drive Element Thermoplastic synthetic material - Tooth Belt Wheel 8M z=30/z=34 (HTD)

Bearing Type Ball Bearing (Series 6204, 6005) DIN 625 available in 2RS, ZZ Load Capacity/Roller 1.800N (depending upon the load limit of tube and shaft)

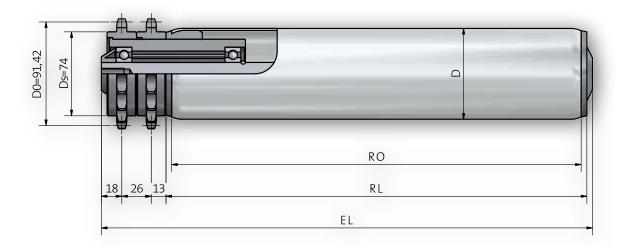
Max. Speed 0,8 m/s Range of Temperature Celcius -5 to +40 C

Type of Drive Permanent drive, tooth element fit positivly to the tube Note Roller will be driven by a 30mm wide tooth belt (HTD).

Order Example







Shaft dimensions

Order Specific	ation	AIGM	
Shaft-Ø	EL=	EL	
20	RL+	62	

Range of counter bearings for tube- and shaft combinations

Tube dia.	A20	
80 x 2	402	
88,9 x 2,9	402	
108 x 3,25	402	

Optional Coatings Page 10 Flange Page 236



Drive Element Thermoplastic synthetic material - Double Sprocket 5/8" x 3/8" z=18

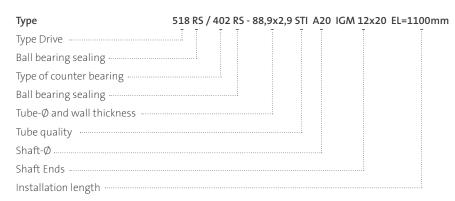
Bearing Type Ball Bearing (Series 6204, 6005) DIN 625 available in 2RS, ZZ Load Capacity/Roller 1.800N (depending upon the load limit of tube and shaft)

Max. Speed 0,5 m/s Range of Temperature Celcius -5 to +40 C

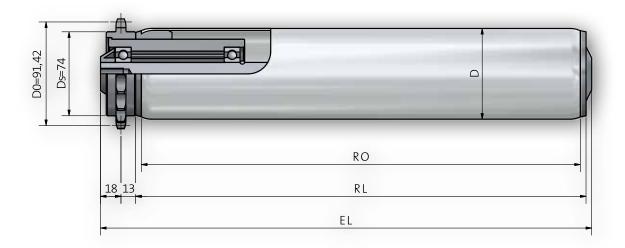
Type of Drive Permanent drive, tooth element fit positivly to the tube

Note

Order Example







Shaft dimensions

Order Specifica	tion	AIGM	
Shaft-Ø	EL=	EL	
20	RL+	36	

Range of counter bearings for tube- and shaft combinations

Tube dia.	A20	
80 x 2	402	
88,9 x 2,9	402	
108 x 3,25	402	

Optional Coatings Page 10 Flange Page 236



Drive Element Thermoplastic synthetic material - Single Sprocket 5/8" x 3/8" z=18

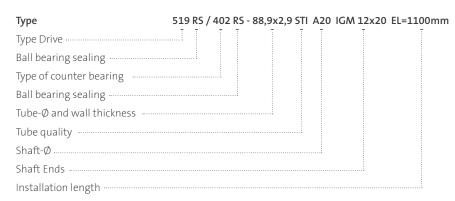
Bearing Type Ball Bearing (Series 6204, 6005) DIN 625 available in 2RS, ZZ Load Capacity/Roller 1.800N (depending upon the load limit of tube and shaft)

Max. Speed 0,3 m/s Range of Temperature Celcius -5 to +40 C

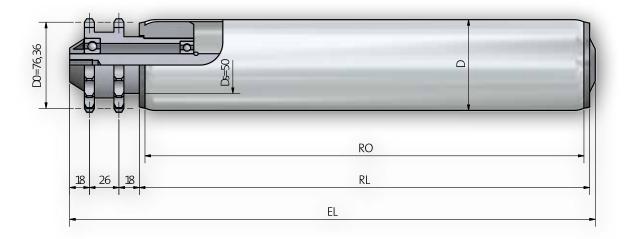
Type of Drive Permanent drive, tooth element fit positivly to the tube

Note Driving element has normal tooth form.

Order Example







Shaft dimensions

Order Specifica	ation	AIGM	
Shaft-Ø	EL=	======================================	
20	RL+	67	

Tube dia.	A20	
80 x 2	402	
88,9 x 2,9	402	
108 x 3,25	402	



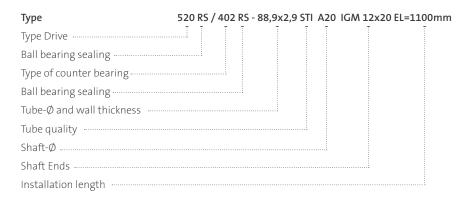
Drive Element Steel - Double Sprocket 5/8" x 3/8" z=15

Bearing Type Ball Bearing (Series 6204, 6005) DIN 625 available in 2RS, ZZ Load Capacity/Roller 1.800N (depending upon the load limit of tube and shaft)

Max. Speed 0,5 m/s Range of Temperature Celcius -5 to +40 C

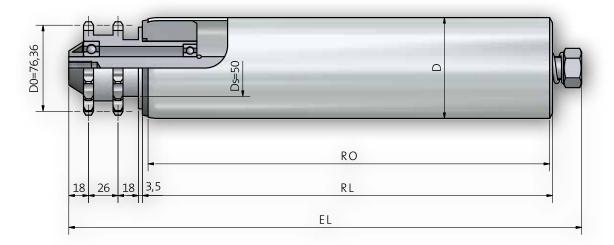
Type of Drive Accumulation drive with a pressure of 5% of the loaded material weight Note For rough materials use adjustable accumulation roller(Type 520R).

Order Example





Roller 520R



Shaft dimensions

Order Specifica	tion	AIGM	
Shaft-Ø	EL=	EL	
20	RL+	89	

Tube dia.	A20
80 x 2	402WO / 402WT
88,9 x 2,9	402WO / 402WT
108 x 3,25	402WO / 402WT



Roller 520R

Drive Element Steel - Double Sprocket 5/8" x 3/8" z=15

Bearing Type Ball Bearing (Series 6004, 6204) DIN 625 available in 2RS, ZZ Load Capacity/Roller 1.800N (depending upon the load limit of tube and shaft)

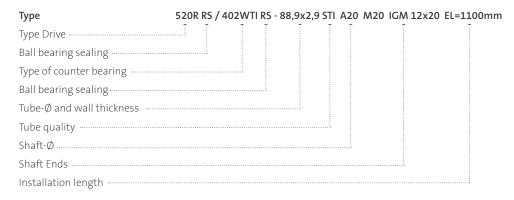
Max. Speed 0,5 m/s Range of Temperature Celcius -5 to +40 C

Type of Drive Accumulation drive with a pressure of 5% of the loaded material weight

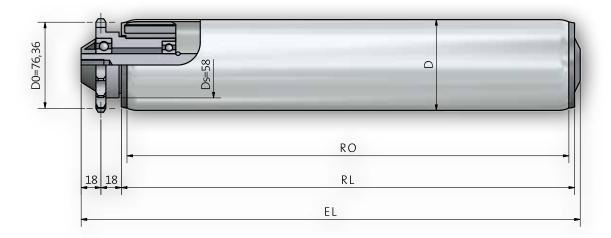
(depending on adjustment).

Note Accumulation pressure to be adjusted manually.

Order Example







Shaft dimensions

Order Specific	cation	AM	AIGM
Shaft-Ø	EL=	- E	EL
20	RL+	59	41

Tube dia.	A20	
80 x 2	402	
88,9 x 2,9	402	
108 x 3,25	402	



Drive Element

Steel - Single Sprocket 5/8" x 3/8" z=15 Bolt Tooth Form

Bearing Type

Ball Bearing (Series 6004, 6204) DIN 625 available in 2RS, ZZ

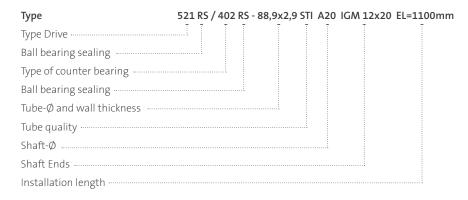
Load Capacity/Roller

1.800N (depending upon the load limit of tube and shaft)

Max. Speed 0,3 m/s Range of Temperature Celcius -5 to +40 C

Type of Drive Accumulation drive with a pressure of 5% of the loaded material weight Note For rough materials use adjustable accumulation roller(Type 521R).

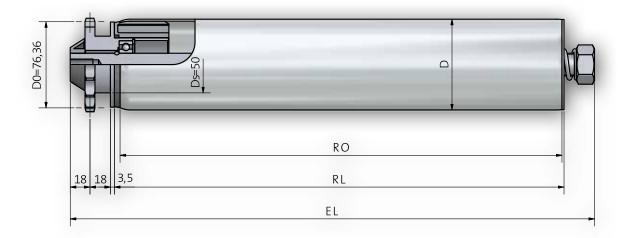
Order Example



Technical NotesTube/Shaft Page 7Bearing Type Page 14Generally Note Page 5



Roller 521R



Shaft dimensions

Order Specifica	tion	AIGM	
Shaft-Ø	EL=	EL	
20	RL+	63	

Tube dia.	A20
80 x 2	402WO / 402WT
88,9 x 2,9	402WO / 402WT
108 x 3,25	402WO / 402WT



Roller 521R

Drive Element

Steel - Single Sprocket 5/8" x 3/8" z=15 Bolt Tooth Form

Bearing Type

Ball Bearing (Series 6004, 6204) DIN 625 available in 2RS, ZZ

Load Capacity/Roller

1.800N (depending upon the load limit of tube and shaft)

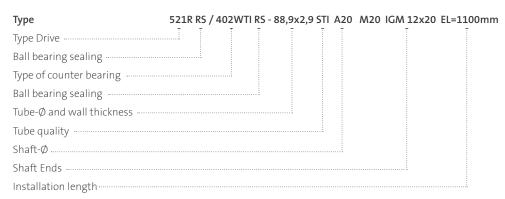
Max. Speed 0,3 m/s Range of Temperature Celcius -5 to +40 C

Type of Drive Accumulation drive with a pressure of 5% of the loaded material weight

(depending on adjustment).

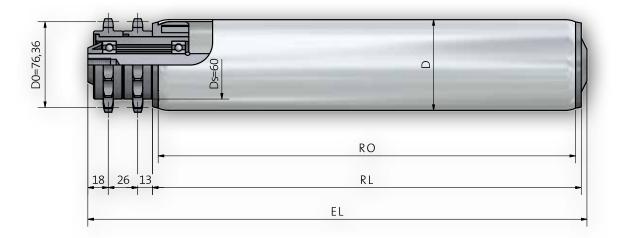
Note Accumulation pressure to be adjusted manually.

Order Example



Technical NotesTube/Shaft Page 7Bearing Type Page 14Generally Note Page 5





Shaft dimensions

Order Specifica	tion	AIGM	
Shaft-Ø	EL=	EL	
20	RL+	62	

Range of counter bearings for tube- and shaft combinations

Tube dia.	A20
80 x 2	402
88,9 x 2,9	402

Optional Coatings Page 10 Flange Page 236



Drive Element Thermoplastic synthetic material - Double Sprocket 5/8" x 3/8" z=15

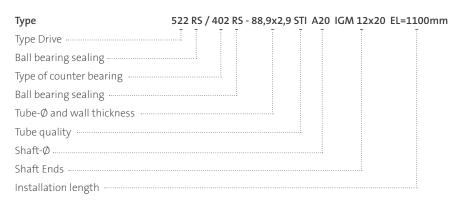
Bearing Type Ball Bearing (Series 6004) DIN 625 available in 2RS, ZZ Load Capacity/Roller 1.200N (depending upon the load limit of tube and shaft)

Max. Speed 0,5 m/s Range of Temperature Celcius -5 to +40 C

Type of Drive Permanent drive, tooth element fit positivly to the tube

Note

Order Example



Technical Notes Tube/Shaft Page 7 Bearing Type Page 14 Generally Note Page 5





Shaft dimensions

Order Specifica	tion	AIGM	
Shaft-Ø	EL=	EL	
20	RL+	36	

Range of counter bearings for tube- and shaft combinations

Tube dia.	A20
80 x 2	402
88,9 x 2,9	402

Optional Coatings Page 10 Flange Page 236



Drive Element Thermoplastic synthetic material - Single Sprocket 5/8" x 3/8" z=15

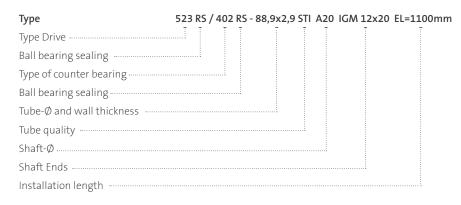
Bearing Type Ball Bearing (Series 6004) DIN 625 available in 2RS, ZZ Load Capacity/Roller 800N (depending upon the load limit of tube and shaft)

Max. Speed 0,3 m/s Range of Temperature Celcius -5 to +40 C

Type of Drive Permanent drive, tooth element fit positivly to the tube

Note Driving element has normal tooth form.

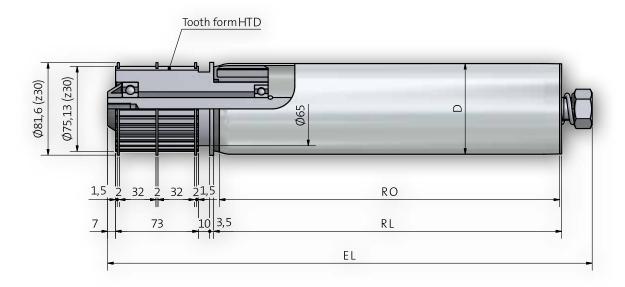
Order Example



Technical NotesTube/Shaft Page 7Bearing Type Page 14Generally Note Page 5



Roller 533R z30 / z34



Shaft dimensions

Order Specifi	ication	AIGM
Shaft-Ø	EL=	EL
20	RL+	114

Tube dia.	A20
80 x 2	402WO / 402WT
88,9 x 2,9	402WO / 402WT
108 x 3,25	402WO / 402WT



Roller 533R z30 / z34

Drive Element Steel - Tooth Belt Wheel 8M z=30/z=34 (HTD)

Bearing Type Ball Bearing (Series 6204) DIN 625 available in 2RS, ZZ Load Capacity/Roller 1.800N (depending upon the load limit of tube and shaft)

Max. Speed 0,8 m/s Range of Temperature Celcius -5 to +40 C

Type of Drive Accumulation drive with a pressure of 5% of the loaded material weight

(depending on adjustment).

Note Accumulation pressure to be adjusted manually.

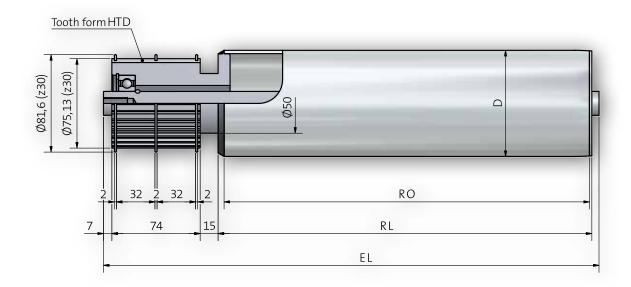
Order Example

Туре	533R z30 RS /	402WTI R	5 - 88,9x2,	9 STI A20	M20 IGM	12x20 EL=1	100mm
Type Drive		Ī	Ī	ĪĪ	Ī		-
Ball bearing sealing							
Type of counter bearing							
Ball bearing sealing							
Tube-Ø and wall thickness							
Tube quality							
Shaft-Ø							
Shaft Ends							
Installation length							

Technical NotesTube/Shaft Page 7Bearing Type Page 14Generally Note Page 5



Roller 534 z30 / z34



Shaft dimensions

Order Specifica	ation	AIGM	
Shaft-Ø	EL=	EL	
20	RL+	101	
25	RL+	101	

Range of counter bearings for tube- and shaft combinations

Tube dia.	A20	A25
88,9 x 2,9	260	260
108 x 3,25	260	260
133 x 3,6	402WO	402WO

 Optional
 Coatings Page 10
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Roller 534 z30 / z34

Drive Element	Steel-Tooth Belt Wheel 8M z=30/z=34 (HTD)
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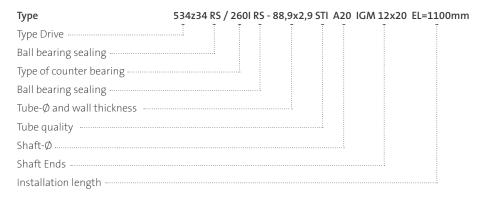
Bearing Type Ball Bearing (Series 6204, 6005) DIN 625 available in 2RS, ZZ Load Capacity/Roller 2.000N (depending upon the load limit of tube and shaft)

Max. Speed 0,8 m/s Range of Temperature Celcius -5 to +40 C

Type of Drive Permanent drive, driving element welded to the tube

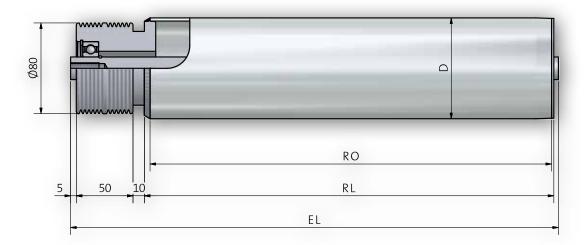
Note Roller will be driven by a 30mm wide tooth belt (HTD).

Order Example



Technical NotesTube/Shaft Page 7Bearing Type Page 14Generally Note Page 5





Shaft dimensions

Order Specifica	tion	AIGM	
Shaft-Ø	EL=	₩///- EL	
20	RL+	70	

Range of counter bearings for tube- and shaft combinations

Tube dia.	A20
80 x 2	260
80 x 3	260
88,9 x 2,9	260
108 x 3,25	260

Optional Coatings Page 10 Flange Page 236



Drive Element Steel-Ripped-V-Belt - PK profile (DIN 9982)

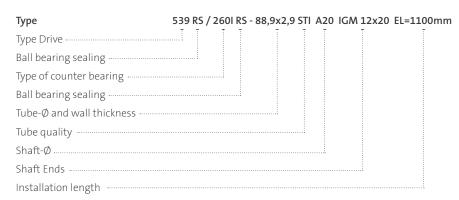
Bearing Type Ball Bearing (Series 6204, 6005) DIN 625 available in 2RS, ZZ Load Capacity/Roller 2.000N (depending upon the load limit of tube and shaft)

Max. Speed 0,8 m/s Range of Temperature Celcius -5 to +40 C

Type of Drive Permanent drive, driving element welded to the tube

Note Roller will be driven by belts with 6 or 8 ribs.

Order Example



Technical NotesTube/Shaft Page 7Bearing Type Page 14Generally Note Page 5

Conical Roller

Туре	Description	Page
	Conicities	162
540 / 541	Thermoplastic synthetic material - Double chain sprocket 1/2x5/16" z=14	164
542 / 543	Thermoplastic synthetic material - Single chain sprocket 1/2x5/16" z=14	166
550/551	Steel Double chain sprocket 1/2x5/16" z=14	168
552 / 553	Steel Single chain sprocket 1/2x5/16" z=14	170
563	Steel Double chain sprocket 3/8x7/32" z=12	172
566 / 567	Steel Double chain sprocket 3/8x7/32" z=12	174
568	Thermoplastic synthetic material - Ripped-V-Belt PJ profile	176
570	Thermoplastic round belt pulley with 2 grooves	178
600	Thermoplastic syntethic material - Steel housing with Precision Ball Bearing	180
601	Thermoplastic syntethic material - Steel housing with Precision Ball Bearing	182
602	Thermoplastic syntethic material - Steel housing with Precision Ball Bearing	184



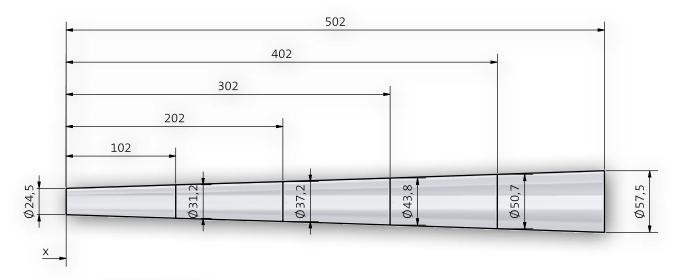




Conicities

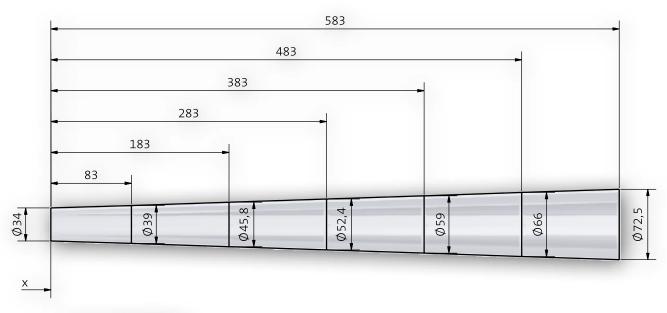
1. Conical Elements

Type 563, 601



x = inner radius 373 mm

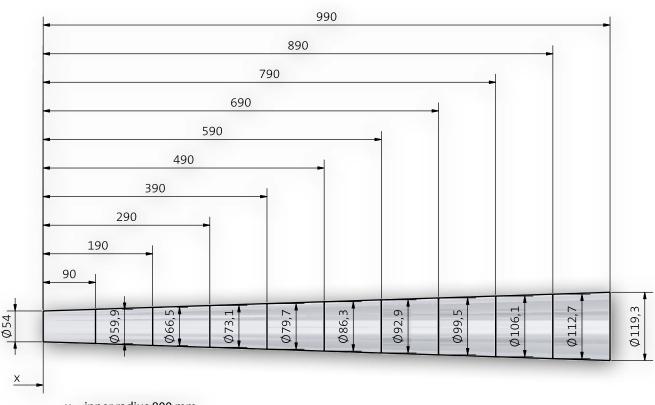
Type 566, 567, 602



x = inner radius 500 mm



Type 540, 541, 542, 543, 550, 551, 552, 553, 568, 600



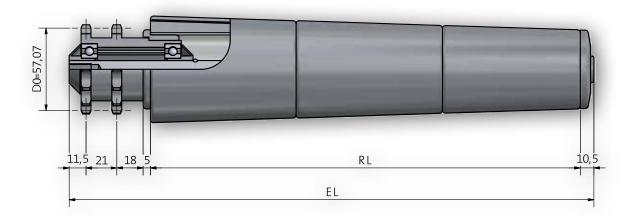
x = inner radius 800 mm

2. Conical Roller with PUR-RIM coating, 73° Shore D upon cylindrical roller

The available conicities of the coating you will receive upon request. The coating is not antistatic and not heat resistant.



Conveyor Roller 540 / 541



Shaft dimensions

Description		AM	AIGM
Shaft-Ø	EL=	- <u>EL</u>	EL
10	RL+	79	
12	RL+	81	67
14	RL+	83	67

Tube dia.	A10 A12	A14
50	300 300	300



Conveyor Roller 540 / 541

Drive Element Thermoplastic synthetic material - Double sprocket 1/2" x 5/16" z=14

Bearing Type Ball Bearing (Series 6202) DIN 625 available in 2RS,

ZZ Standard Series 6202 ZZ

Load Capacity/Roller 400N (depending upon the load limit of tube and shaft)

Max. Speed 0,5 m/s Range of Temperature Celsius -5 to +40 C

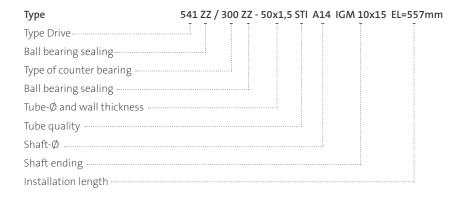
Type of Drive Type

Type 540 Accumulation drive with a pressure of 5% of the loaded material weight

Type 541 Permanent drive, driving element fit positively to the tube by a bushing

Note Permanent drive only for continuous conveying.

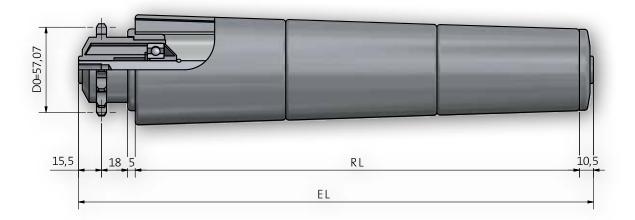
Order Example



Technical Notes Bearing Type Page 14 Generally Note Page 5



Conveyor Roller 542 / 543



Shaft dimensions

Order Specif	ication	AM	AIGM
Shaft-Ø	EL=		EL
10	RL+	62	
12	RL+	64	50
14	RL+	66	50

Tube dia.	A10 A12	A14
50	300 300	300



Conveyor Roller 542 / 543

Drive Element Thermoplastic synthetic material - Single Sprocket 1/2" x 5/16" z=14

Bearing Type Ball Bearing (Series 6202) DIN 625 available in 2RS, ZZ Standard Series 6202 ZZ

Load Capacity/Roller 400N (depending upon the load limit of tube and shaft)

Max. Speed 0,5 m/s Range of Temperature Celsius -5 to +40 C

Type of Drive Type 542 Accumulation drive with a pressure of 5% of the loaded material weight

Type 543 Permanent drive, driving element fit positively to the tube by a bushing

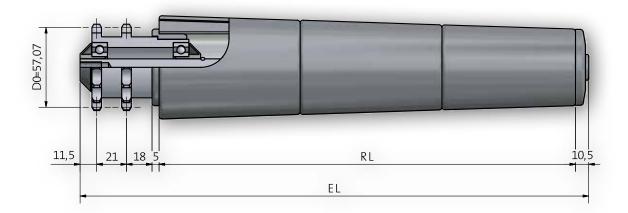
Note Permanent drive only for continuous conveying.

Order Example

Туре	543 ZZ	/ 300 ZZ	- 50x1,5	STI A14	IGM 10x15	EL=540mm
Type Drive			Ī	II	-	
Ball bearing sealing		1 1				
Type of counter bearing						
Ball bearing sealing						
Tube-Ø and wall thickness						
Tube quality						
Shaft-Ø						
Shaft ending						
Installation length						



Conveyor Roller 550 / 551



Shaft dimensions

Order Specif	ication	AM	AIGM
Shaft-Ø	EL=		EL
10	RL+	79	
12	RL+	81	67
14	RL+	83	67

Tube dia.	A10 A12	A14
50	300 300	300



Conveyor Roller 550 / 551

Drive Element Steel - Double Sprocket 1/2" x 5/16" z=14

Bearing Type Ball bearing (Series 6202) DIN 625 available in 2RS, ZZ Standard Series 6202 ZZ

Load Capacity/Roller 400N (depending upon the load limit of tube and shaft)

Max. Speed 0,5 m/s Range of Temperature Celsius -5 to +40 C

Type of Drive Type 550 Accumulation drive with a pressure of 5% of the loaded material weight

Type 551 Permanent drive, driving element fit positively to the tube by a bushing

Note Permanent drive only for continuous conveying.

Optional Type 555 (accumulation drive) and Type 556 (permanent drive) even

available with PU-RIM:

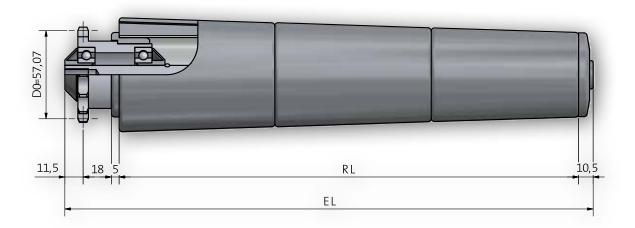
Coated tube for other inner circles or tube diameters.

Order Example

Туре	551 ZZ	/ 300	ZZ -	50x1,5	STI	A14	IGM 10x15	EL=557mm
Type Drive	[Ī	Ī	Ī	Ī	Ī	Ī	Ī
Ball bearing sealing		1						
Type of counter bearing								
Ball bearing sealing			!					
Tube-Ø and wall thickness								
Tube quality								
Shaft-Ø								
Shaft ending								
Installation length								<u>i</u>



Conveyor Roller 552 / 553



Shaft dimensions

Order Specif	ication	AM	AIGM
Shaft-Ø	EL=		EL
10	RL+	58	
12	RL+	60	46
14	RL+	62	46

Tube dia.	A10 A12	A14
50	300 300	300



Conveyor Roller 552 / 553

Drive Element Steel - Single Sprocket 1/2" x 5/16" z=14

Bearing Type Ball bearing (Series 6202) DIN 625 available in 2RS, ZZ Standard Series 6202 ZZ

Load Capacity/Roller 400N (depending upon the load limit of tube and shaft)

Max. Speed 0,5 m/s Range of Temperature Celsius -5 to +40 C

Type of Drive Type 552 Accumulation drive with a pressure of 5% of the loaded material weight

Type 553 Permanent drive, driving element fit positively to the tube by a bushing

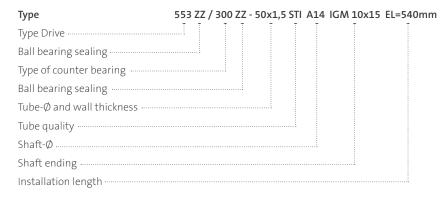
Note Permanent drive only for continuous conveying.

Optional Type 557 (accumulation drive) and Type 558 (permanent drive) even

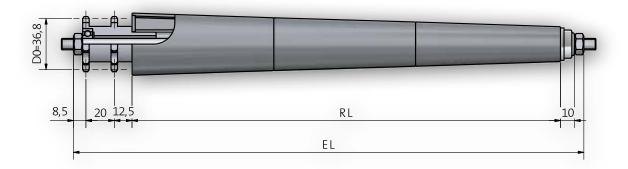
available with PU-RIM:

Coated tube for other inner circles or tube diameters.

Order Example







Shaft dimensions

Order Specifi	cation	AM	AFA
Shaft-Ø	EL=	- EL	
8	RL+	59	52



Drive Element Steel - Double Sprocket 3/8" x 7/32" z=12

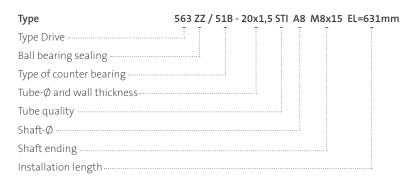
Bearing Type Ball Bearing (Series 608) DIN 625 available in 2RS, ZZ
Load Capacity/Roller 100N (depending upon the load limit of tube and shaft)

Max. Speed 0,5 m/s Range of Temperature Celsius -5 to +40 C

Type of Drive Type 563 Permanent drive, driving element fit positively to the tube by a bushing

Note Permanent drive only for continuous conveying.

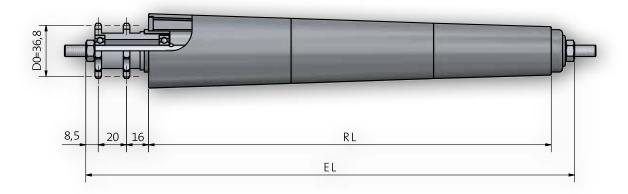
Order Example



Technical Notes Bearing Type Page 14 Generally Note Page 5



Conveyor Roller 566 / 567



Shaft dimensions





Conveyor Roller 566 / 567

Drive Element Steel - Double Sprocket 3/8" x 7/32" z=12

Bearing Type Ball Bearing (Series 608) DIN 625 available in 2RS, ZZ Load Capacity/Roller 200N (depending upon the load limit of tube and shaft)

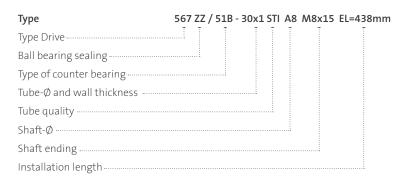
Max. Speed 0,5 m/s Range of Temperature Celsius -5 to +40 C

Type of Drive Type 566 Accumulation drive with a pressure of 5% of the loaded material weight

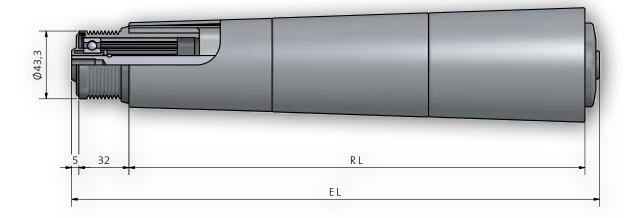
Type 567 Permanent drive, driving element fit positively to the tube by a bushing

Note Permanent drive only for continuous conveying.

Order Example







Shaft dimensions

Order Specific	cation	AM	AAGM	AIGM	Aglatt	AFA	
Shaft-Ø	EL=	- EL	EL	EL			
10	RL+		47	47		47	
S 11	RL+				47	47	
12	RL+	61	47	47		47	
14	RL+	63	47	47		47	
15	RL+		47	47			

Tube dia.	A10	ASK11	A12	A14
50	302	302	302	302



Drive Element Thermoplastic synthetic material - Ripped-V-Belt PJ profile (DIN 7867)

Bearing Type Ball Bearing (Series 6202) DIN 625 available in 2RS, ZZ Standard Series 6202 ZZ

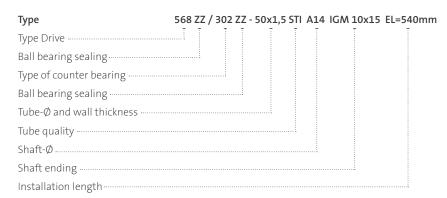
Load Capacity/Roller 400N (depending upon the load limit of tube and shaft)

Max. Speed 0,5 m/s Range of Temperature Celsius -5 to +40 C

Type of Drive Type 568 Permanent drive, driving element fit positively to the tube

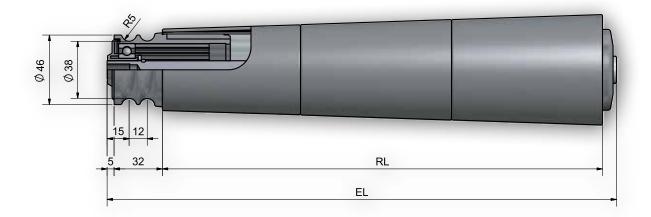
Note Roller will be driven by belts with 2 ribs.

Order Example



Technical Notes Bearing Type Page 14 Generally Note Page 5





Shaft dimensions

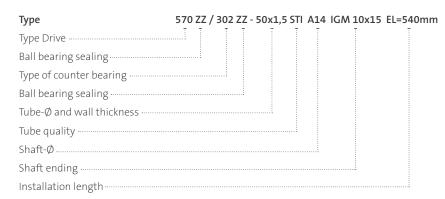
Order Specifi	cation	AM	AAGM	AIGM	Aglatt	AFA	
Shaft-Ø	EL=	EL	EL.	EL			
10	RL+		47	47		47	
S 11	RL+				47	47	
12	RL+	61	47	47		47	
14	RL+	63	47	47		47	
15	RL+		47	47			

Tube dia.	A10	ASK11	A12	A14
50	302	302	302	302



Drive Element	Thermoplastic round belt pulley with 2 grooves
Bearing Type	Ball Bearing (Series 6202) DIN 625 available in 2RS, ZZ Standard Series 6202 ZZ
Load Capacity/Roller	300N (depending upon the load limit of tube and shaft)
Max. Speed	0,5 m/s
Range of Temperature Celsius	-5 to +40 C
Type of Drive	Type 570 Permanent drive, driving element fit positively to the tube
Note	Supporting rollers are driven with a round belt \emptyset 5mm.

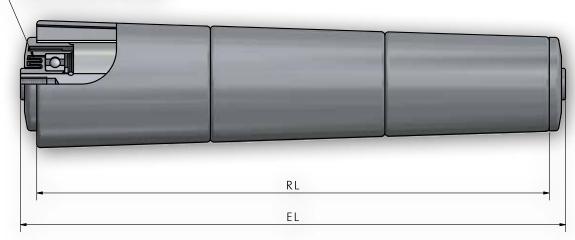
Order Example



Technical Notes Bearing Type Page 14 Generally Note Page 5



double labyrinth sealing



Shaft dimensions

Order Specif	ication	AM	AIGM
Shaft-Ø	EL=	-	EL
10	RL+	32	20
12	RL+	34	20
14	RL+	36	20

Tube dia.	A10	A12	A14
50	300 / 302	300 / 302	300 / 302



Bearing Type Thermoplastic syntethic material - Steel housing with Precision Ball Bearing

Type of Bearing Ball Bearings (Series 6202) DIN 625 available in 2RS, ZZ Standard Series 6202 ZZ

Load Capacity/Roller 400N (depending upon the load limit of tube and shaft)

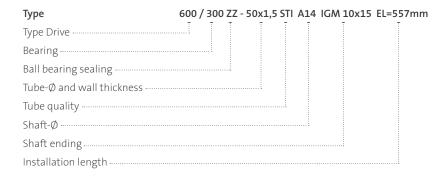
Max. Speed 0,5 m/s Range of Temperature Celsius -5 to +40 C

Note For use as driven roller.

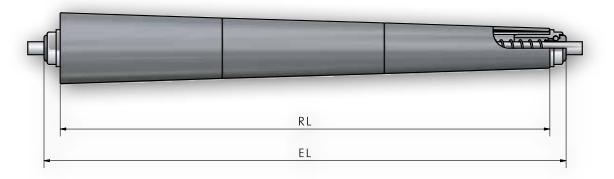
Optional Type 605 even available with PU-RIM coated tube for other inner circles

or tube diameter.

Order Example







Shaft dimensions

Order Specif	fication	AM	AIGM	AFA
Shaft-Ø	EL=		EL	
8	RL+	34	21	21

Range of counter bearings for tube- and shaft combinations



Bearing Type Thermoplastic syntethic material - Steel housing with Precision Ball Bearing

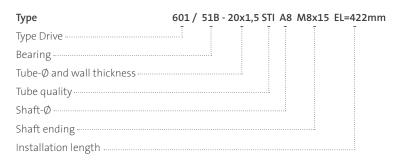
Type of Bearing Ball Row

Load Capacity/Roller 100N (depending upon the load limit of tube and shaft)

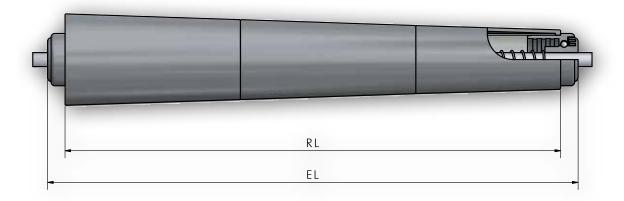
Max. Speed 0,5 m/s Range of Temperature Celsius -5 to +40 C

Note Gravity Roller - not for use as driven roller

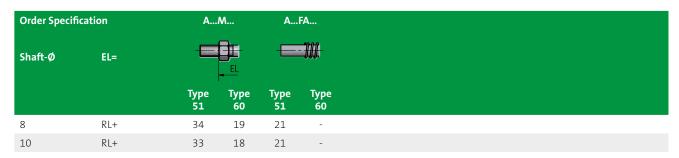
Order Example







Shaft dimensions



Range of counter bearings for tube- and shaft combinations



Bearing Type Thermoplastic syntethic material - Steel housing with Precision Ball Bearing

Type of Bearing With bearing Type 60: Ball Bearing (Series 608,6000), 6202 DIN 625

available in 2RS, ZZ Standard Series 608ZZ

With bearing Type 50/51: Ball Row

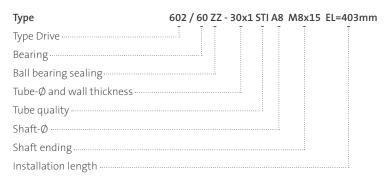
Load Capacity/Roller 100N (depending upon the load limit of tube and shaft)

Max. Speed 0,5 m/s Range of Temperature Celsius -5 to +40 C

Note Type 60: can be used as driven roller.

Type 50/51: Gravity Roller - not for use as driven roller.

Order Example



Zero Pressure Conveying System

Туре	Description	Page	
	Introduction	188	
530	Clutch up to 10.000N	191	
531	Clutch up to 1.200N	192	
530L/531L	Light sensor/light barrier with integrated logic	193	
530Z / 531Z	Pneumatic cylinder	195	
536E	Electromagnetic Clutch 24V DC	197	
Drive System	Electronical module for contactless conveying	199	
RMD-Card	Rollex Multi-Drive Card	203	





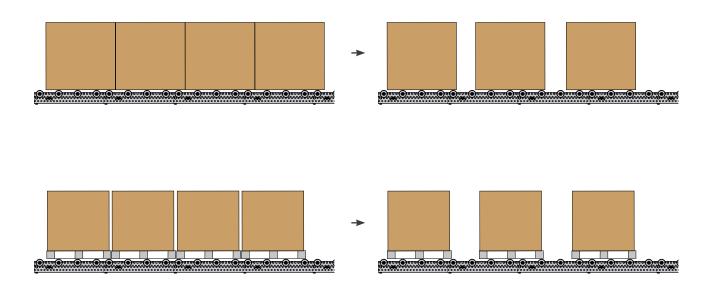


Zero Pressure Conveying System

Rollex zero pressure systems are used in conveyor systems, if goods are not allowed to contact.

Advantages:

- No dynamic pressure
- Easy removal
- Several sections are driven by only one motor
- Easy controling via intelligent parts



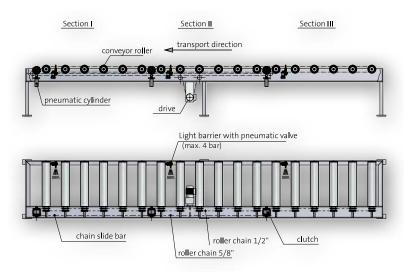


Rollex offers several different possibilities to integrate zero pressure systems into your conveyors.

Type 530 / Type 531

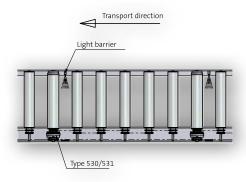
These types are mechanical clutch systems. Typ 530 are driven by a 5/8" tangential an Typ 531 are driven by a 1/2" tangential chain with one motor. Every connected or disconnected section is combined with the tangential chain by a clutch. Beside the tangential 5/8" sprocket the clutch has a 1/2" chain on the side of the section. So a power transmission to each section can be connected or disconnected.

The system is controlled by an electro pneumatic light sensor with integrated logic, but the clutching is done by a pneumatic cylinder. The cylinder stops the clutch and disconnects the required section.



Type 536E

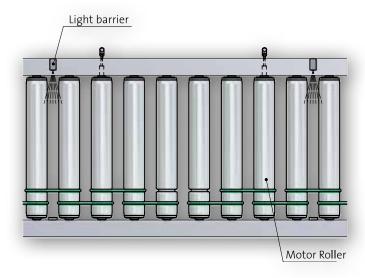
This type is an electro magnetic clutch system. The motor driven 5/8" tangential chain drives the primary sprocket of the clutch. The clutching is done by the Rollex Drive System and disconnects the required section. A magnetic brake, opposite the drive, avoids an overrun of the transported material.





Type 840-50

Type 840-50 is a 24V DC Motor Roller, than can be used as a drive concept for zero pressure systems by the means of intelligent light barriers, the RMD-Card, the Rollex Drive System or other control modes.



Accessories

In addition to the drive components Rollex offers following accessories:

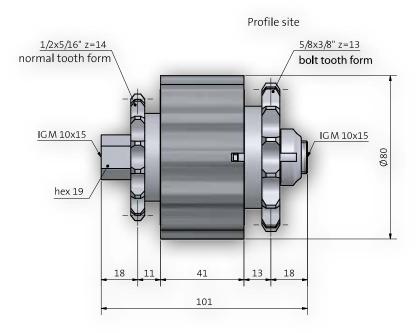
- Electropneumatic light sensor with integrated logic
- Electropneumatic light barrier with integrated logic and mirror
- Rollex Drive System with integrated logic, light barrier and mirror
- Pneumatic cylinder



Type 530

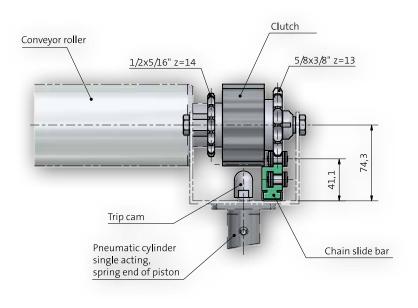
The clutch system Type 530 is made for transport of goods up to 10.000N. On one side the clutch has a sprocket $5/8 \times 3/8$ " z13 with Bolt Tooth Form for tangential drive.

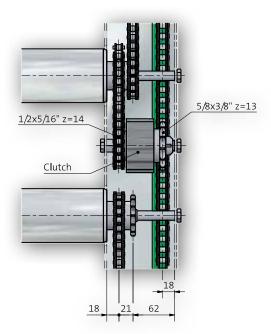
On the other side there is a chain $1/2 \times 5/16$ " z14, that transmits the power to the driven section.



Note:

- max. load capacity 10.000N
- max. speed 0,2m/s
- please consider the breaking load of the 5/8" chain when dimensioning the pallet places
- overrun for 10.000N is around ca. 200mm
- not to be combined with Drive System or RMD-Card

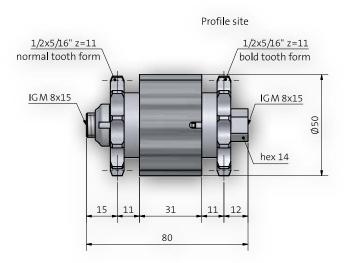






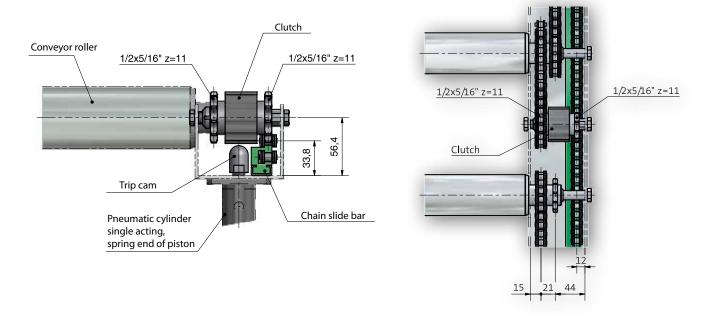
Type 531

The clutch system Type 531 is made for transport of goods up to 1.200N. On one side the clutch has a sprocket $1/2 \times 5/16$ " z11 with Bolt Tooth Form for tangential drive. On the other side there is a chain $1/2 \times 5/16$ " z11, that transmits the power to the driven section.



Note:

- max. load capacity 1.200N
- max. speed 0,3m/s
- please consider the breaking load of the 1/2" chain when dimensioning the pallet places
- overrun for 1.200N is around ca. 100 mm
- not to be combined with Drive System or RMD-Card

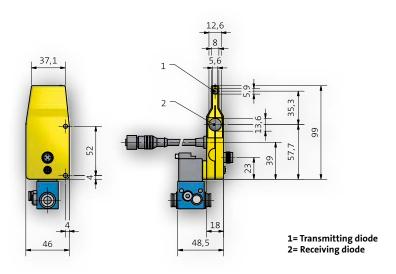




Accessories for Type 530/531

Type 530 – Light Sensor

Retro-Reflex Sensor for Conveyor Systems



- integrated logic
- electrical background suppression
- scaled switching distance adjuster
- fully encapsulated

Optical Data	
Range	550 mm
Potentiometer min	220270 mm
Potentiometer center	320400 mm
Potentiometer max	550630 mm
Switching Hysteresis	< 15 %
Light Source	Infrared Light
Wave Length	880 nm
Service Life (Tu = +25°C)	10000 h
Max Ambient Light	10000 Lux
Opening Angle	5°

Mechanical Data	
Range 550 mm	Housing Plastic
Full Encapsulation	yes
Protection Mode	IP 65
Connection	M 12x1
Cable Length	88 cm

Electronical Data	
Supply Voltage	1830 V DC
Current Consumption Sensor (Ub = 24V)	< 30 mA
Switching Frequency	100 Hz
Response Time	5 ms
Temperature Drift	< 10 %
Temperature Range	-1550°C
Switching Outputs	1
Switching Output Voltage Drop	< 0.8 V
PNP Switching Output/Switching Current	200 Ma
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Logic	yes
Block Discharge	yes
Valve Control	yes

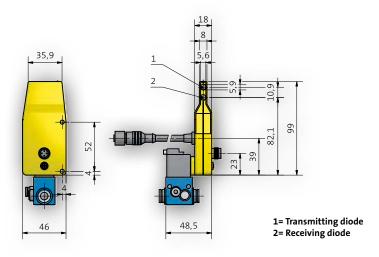
Pneumatic Solenoid Valve Unit	
Valve No.	K04
Supply Voltage Valve	19.228.8 V
Current Consumption Valve	86 mA
Operating Pressure	0.57 bar
Nominal Width	0.8 nn
Nominal flow rate	1 -> 2 20 NI/min
Nominal flow rate	2 -> 3 100 NI/min
Supply line connector pipe	2x 8x1
Working line connector pipe	4x1
Switching function	NC



Accessories for Type 530/531

Type 530 – Light Sensor

Reflex Sensor for Conveyor Systems



- integrated logic
- recognition of high-gloss and jet black objects
- large Working Range
- fully encapsulated

Optical Data	
Range	6500 mm
Reference Reflector	RQ100BA
Min Distance on Reflector	100 mm
Switching Hysteresis	< 15 %
Light Source	Red Light
Polarization Filter	yes
Service Life (Tu = +25°C)	10000 h
Max Ambient Light	10000 Lux
Opening Angle	5°

Mechanical Data	
Housing	Plastic
Full Encapsulation	yes
Protection Mode	IP 65
Connection	M 12x1
Cable Length	88 cm

Electronical Data	
Supply Voltage	1830 V DC
Current Consumption Sensor (Ub = 24V)	< 25 mA
Switching Frequency	100 Hz
Operating Pressure	0.57 bar
Temperature Drift	< 10 %
Temperature Range	-1550°C
Switching Outputs	1
Switching Output Voltage Drop	< 0.8 V
PNP Switching Output/Switching Current	200 mA
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Logic	yes
Block Discharge	yes
Valve Control	yes

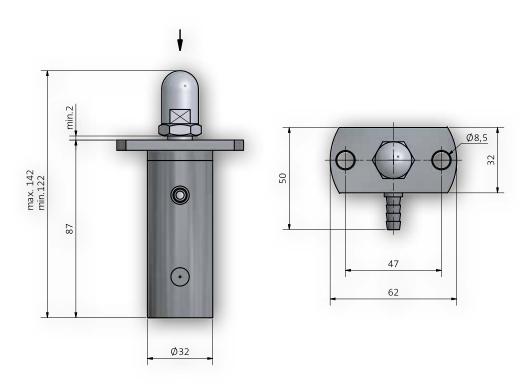
Pneumatic Solenoid Valve Unit			
Valve No.	K04		
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Current Consumption Valve	86 mA		
Operating Pressure	0.57 bar		
Nominal Width	0.8 nn		
Nominal flow rate	1 -> 2 20 NI/min		
Nominal flow rate	2 -> 3 100 NI/min		
Supply line connector pipe	2x 8x1		
Working line connector pipe	4x1		
Switching function	NC		



Accessories for Type 530/531

Type 530 Z / 531 Z

Pneumatic Cylinder



Datas

Material Plastic black

Cylinder rod Stainless Steel with shift cam

Connector Plastic Tube (Connecting to Light Barrier by reducing) from 6 to 4 mm

Lift 20 mm max. Pressure 4 bar

Function

Resting position without air:

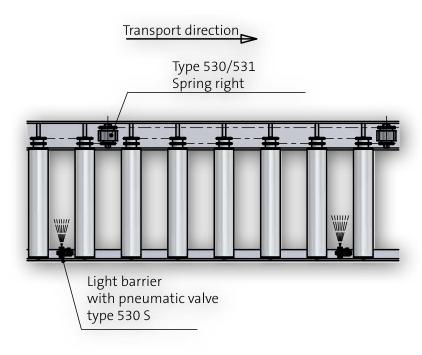
- Cylinder rod out
- Clutch latched off
- Section standing

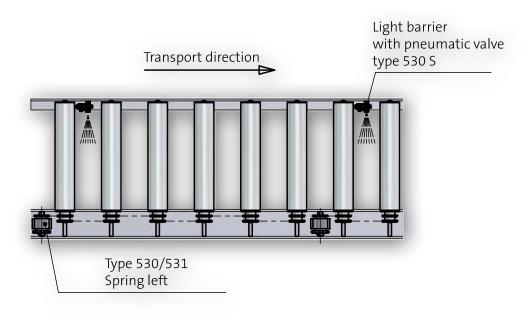
with air:

- Cylinder rod in
- Clutch latched in
- Section running



Construction Advice



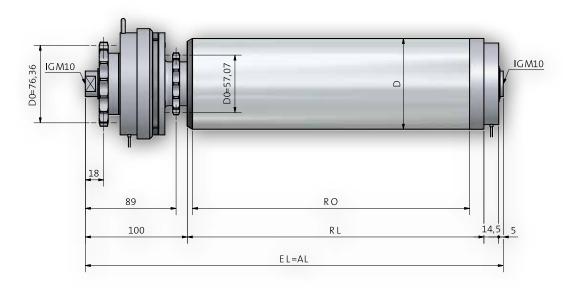




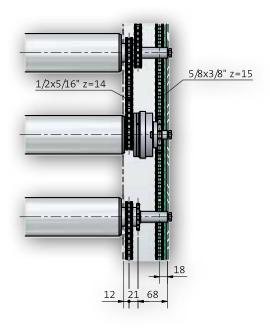
Type 536E

The clutch system Type 536E is made for transport of goods up to 10.000N. On one side the clutch has a sprocket $5/8 \times 3/8$ " z15 with Bolt Tooth Form for tangential drive.

On the other side there is a chain $1/2 \times 5/16$ " z14, that transmits the power to the driven section.



Type 536e can be used together with Rollex Drive System.





Type 536E

Clutch element Electromagnetic Clutch 24V DC

Bearing Type Ball Bearing DIN 625

Load Capacity/Roller 2.000N (to depending upon the load limit of tube and shaft)

Range of Temperature Celcius -5 to +40°C

Nominal Power 24 VDC +/- 10%

Max. Rating Clutch: 48 W

Brake: 24 W

Nominal Torque 40 Nm

Nominal Current Clutch: 2,02 A

Brake: 1,02 A

Power Range 24 - 27 VDC Ampacity 3,04 A

Insulation Group B

Note Avoid contact with oil and grease on the clutch.

Max. Speed 0,3 m / sec.

Order Example

Туре	536E/536B-88.9x2.9 ST A 25 IGM 10x15 SW 15x10 EL 995m
Type Drive	
Type Brake	
Tube dimension	
Tube quality	
Shaft-Ø	
Shaft Ends	
Installation length	



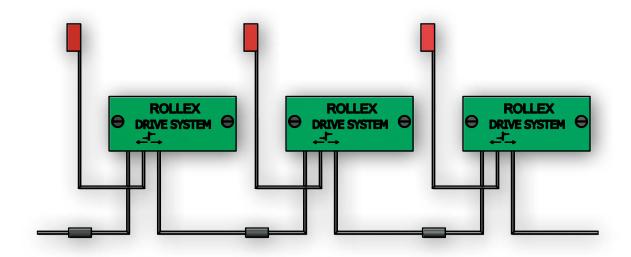
Accessories for Type 536E

Drive System

The Rollex Drive System makes the use of contactless conveying systems easy. By combination of single components with the Drive System (construction kits) complex systems can be installed very simply and with low costs.

The Drive System has an integrated logic. The System can communicate with other sectors and regulates the material flow. The drive is only added if a transportation good passes the light barrier. After leaving the drive it automatically stops.

So you can divide long track into short, automatic switch on and switch off devices.

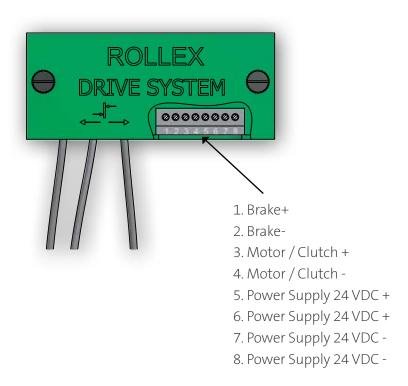




Accessories Type 536E

Drive System

The connection of the system cards happens by means of M8-Clamps to the pre-and after-sections. The power supply can be made separately. For power supply through the Card all 14 to 20 Cards have to be feed new re the drive concept.



Rollex Drive System can be used together with motor roller 840-50 or clutch system 536E

Technical Data

Power Supply 24 VDC
Temperature -5°C to 40°C
Fuse 3,15 A

Current Limiter Motor/Clutch Starting Current 2,02 A

Continuous Load 2,02 A

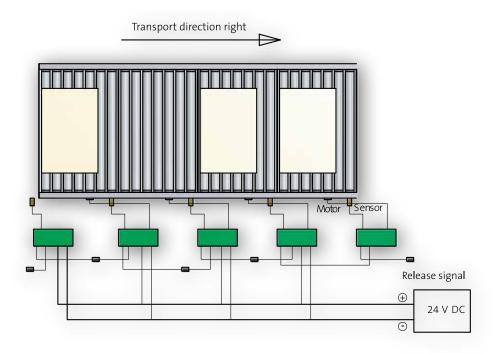
Brake Starting Current 1,8 A / 200ms

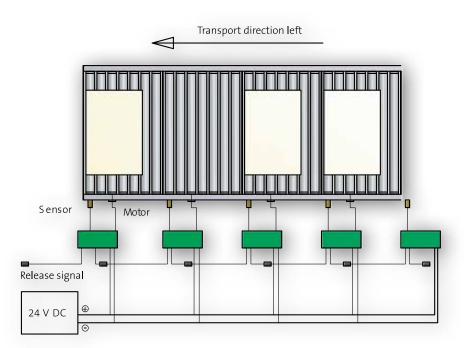
Continuous Load 1,2 A



Accessories for Type 536E

Drive System – Basic construction depending on transport direction





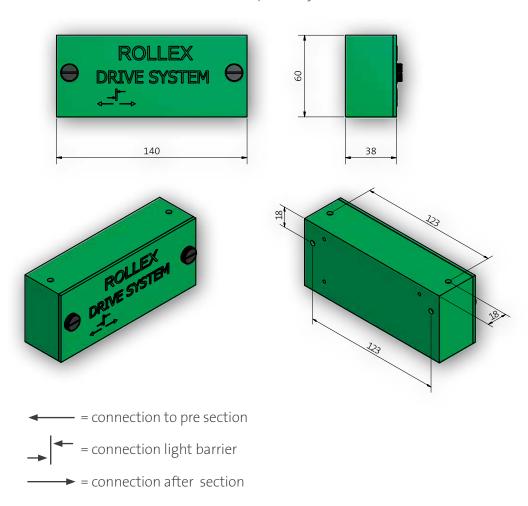


Accessories for Type 536E

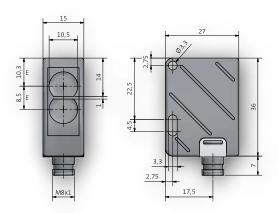
Drive System – Construction Advice

The Rollex Drive System Card is protected by a plastic box.

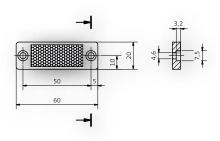
The box can be mounted to the track profile by means of M4 Screws.



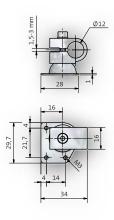
Light barrier:



Reflector:



Clamp of light barrier:





Rollex-Multi-Drive Card (RMD-Card) for Type 840-50

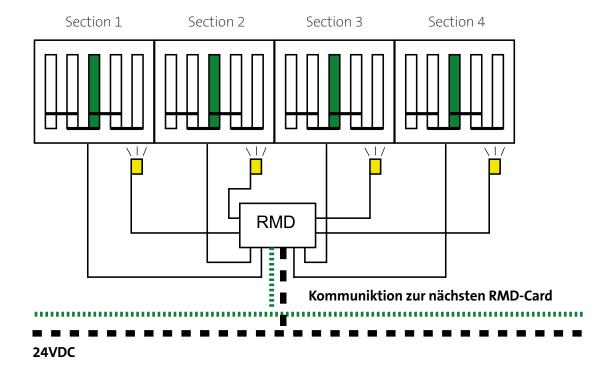
The **Rollex-Multi-Drive-Card (RMD-Card)** simplifies the use of Zero Pressure Conveying Systems. With zero pressure systems the goods are transported contactless - the goods do not touch each other on the track.

By easily combining single components with the Card (construction kits) complex systems can be installed very simple and with low costs.

With the RMD-Card large systems can be made, i. e. multiple cards can be installed in a row.

The Card has an integrated logic which enables communication with other sections and thus regulation of the material flow. The drive is only active if the transportation good passes the light barrier. After leaving, the drive automatically stops.

The RMD-Card contains all intelligent functions, which are necessary for contactless conveying.



- possible connection of up to 4 pcs. 24VDC Rollex Motor Roller Type 840
- possible connection of up to 4 pcs. Light Barriers
- adjustment of speed and direction
- Interface Module for standardised BUS-Systems



Function

The **Rollex-Multi-Drive-Card (RMD-Card)** controls up to 4 motors and transports the goods contactless within 4 sections. The control systems allows to regulate between 1 and 4 motors.

The **RMD-Card** is build up modular and can be enlarged user-defined, i. e. means several **RMD-Cards** can be connected and they communicate together. So a cost-effective construction for contactless conveying of goods is possible.

The detection of the single goods is done by photoelectrical sensors. A change of the switching output is not necessary as standardised PNP and NPN exits can be used. The transport direction can be controlled by a joint signal. The direction of logic changes than automatically. But the direction can even be adjusted in advance by a rotary switch.

After initialisation the motor starts for 3 sec. to move goods, which are placed in areas between the light barriers, into their sections. So the **RMD-Card** can "see" if a section is full or not, when the track is started. If goods are placed within the next section, the roller of this section does not start.

If a transport good is placed to any section of the track, the section starts conveying (no normal start).

The motor function has a run time monitoring system (block protection). The switch off time is around 10 sec. If a motor is switched off by the run time monitoring system, it is blocked until clearance of the according light barrier. The error message generated by the motor (current limiting, lower voltage) will be provided as collective report potential-free.

As an option a standardised BUS-System (e.g. Profibus) can be used.

The **RMD-Card** uses a micro controller, that is decisive for the logical work. Simultaneously the micro controller provides all information to a BUS-system via. the RS-485-interface. Advantage of the RS-485-interface is the high speed data transfer even when high cable length is used.

The information will be stored with an external processor (interface adaptor) and can be imported and exported. The information can be read via an RJ45-interface. So different BUS protocols can be realised via a protocol-converter (from various manufacturers). As a master e. g. an SPS controller can be used.

All motors and sensors can be visualised.



Technical Data

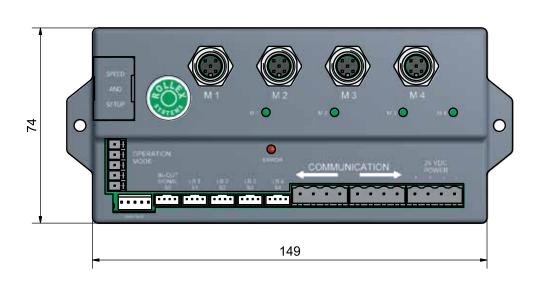
Rollex-Multi-Drive-Card

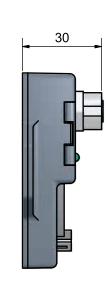
Box Sizes: Width = 149 mm (without fastening)

Height = 74 mm

Depth = 30 mm (with connection)

67 mm (with right-angle plug M12)





Power supply:	24 VDC	Motorrolle 840-50:

Voltage range: 20 - 28V Power supply: 24VDC

Current with 2 motors: 5 A Power range: 18–28 VDC

Current with 3 motors: 7,5 A Nominal rating: 40W

Current with 4 motors: 10A Nominal current: 2,5A

Protection class: IP 20 Nominal current (neutral gear): 0,3 A

Temperature: -5 to +40 deg Celsius Starting current (neutral gear): 0,5 A

Recommended cable cross section: 1,5 mm ² Nominal Revolution: 2400 RPM

The Rollex-Multi-Drive-Card (RMD-Card) can only be used with Rollex Motor Roller Type 840-50.



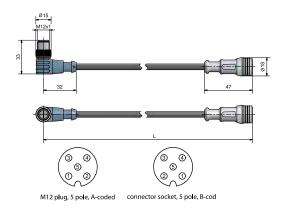
Optional Accessories

Extension cable RMD-Card to motor 800mm

M12 Push-Pull-Plug 5-terminal – M12 right-angle plug.

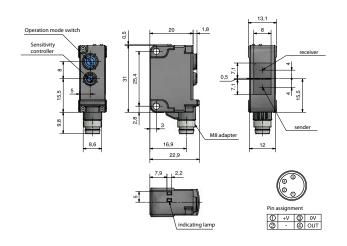
Extension cable RMD-Card to Motor 1.600mm

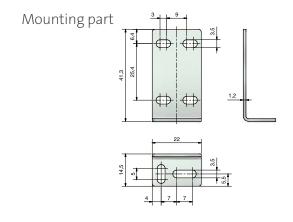
M12 Push-Pull-Plug 5-terminal – M12 right-angle plug.



Light Barrier

Photoelectric sensor with M8 plug 4-terminal, adjusting by help of red LED. Polarizing reflection optic(no problems with metallic goods).



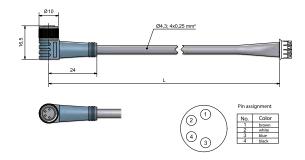


Extension cable RMD-Card to Light Barrier 2000mm

Jack M8 5-terminal right-angle plug – JST jack

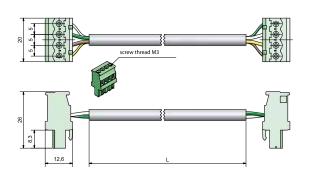
Extension cable RMD-Card to Light Barrier 1000mm

Jack M8 5-terminal right-angle plug – JST jack



Communication Cable(free length)

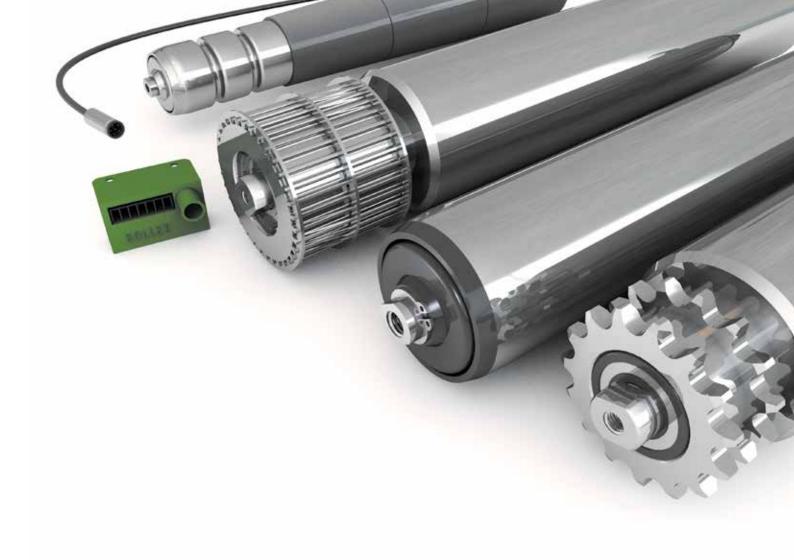
4-terminal plug on both sides





Motor Roller

Туре	Description	Page
840-50	Motor Roller 24VDC	210
850-89	Motor Roller / Drum Motor Type 850-89	214







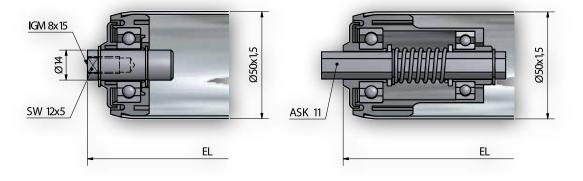


Variation	Gear	Speed in m/s	Torque in Nm	Engine Revolu- tion in RPM
1	i=26,67	0,20 - 0,48	1,8	2.000 - 4.800
II	12,65:1	0,51 - 0,77	0,9	1.500 - 3.700
Ш	i=7,51	0,76 - 1,30	0,6	1.500 - 3.700

Possible variations for the counterbearing:

Tube dia.	A11 SK	A 14
50 x 1,5	302 / 306 / 307	302 / 306 / 307
	600	600

Shaft dimensions:



OptionalCoatings Page 10RMD-Card Page 203Rollex Drive System Page 201Groove for belt drive Page 46



Drive: 24 V DC Motor brushless

Type of Bearing Ball Bearing (Serie 6202) DIN 625 Standard 6202 2RS
Load Capacity/Roller 500 N (depending upon the load limit of tube and shaft)

Range of Temperature Celcius -5 to +40 C

Min. Installation Length (EL) 840/302: 320 mm

840/302: 375 mm (spring loaded shaft)

840/420: 405 mm 840/423: 370 mm

Motor Exit Male Thread M12 x 1,25 with hexagonical SK 11

Nominal Power 24 VDC

Power Range 18 - 28 VDC

Nominal Rating 40 W
Nominal Current 2,5 A
Nominal Current (neutral gear) 0,1 - 0,4 A
Starting Current (neutral gear) 0,5 A

Protective Function:

Over- or Lower voltage Drive stops if voltage is lower than 17,5V and higher than 30,5V

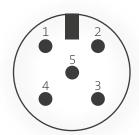
Over Temperature Drive stops if temperature is higher than 100° C

Over Current Drive stops if current is higher than 5A

Blocking Protection Motor stops if suddenly blocked and starts again after 3 sec.

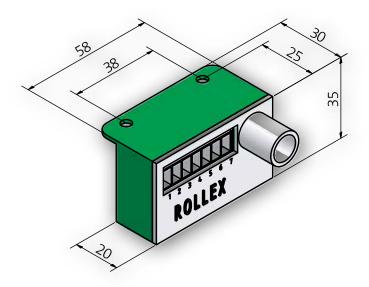
Technical Data Motor Plug

- 1 24 VDC
- 2 Direction
- 3 GND (Ground)
- 4 Failure
- 5 Rotation speed set value



Technical Notes Tube/Shaft Page 7 Bearing Type Page 14 Generally Note Page 5





Connection on the Card

- 1 Failure exit -
- 2 Failure exit +
- 3 GND (entry direction and start)
- 4 Entry direction
- 5 Entry start
- 6 Nominal Voltage GND
- 7 Nominal Voltage +24 VDC

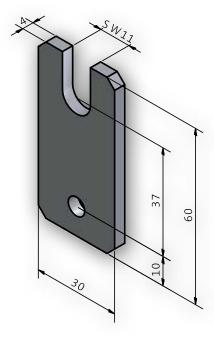
Speed and direction can be controlled by the rotary switch.

Following settings are possible:

Constant		Speed (m/s)		Direction
Switch	i = 7,51	i = 12,65	i = 26,67	Direction
0	1,30	0,77	0,48	
1	1,19	0,71	0,44	
2	1,08	0,64	0,40	
3	0,97	0,58	0,36	Left-
4	0.87	0,51	0,32	turn
5	0,76	0,45	0,28	
6	0,65	0,39	0,24	
7	0,54	0,32	0,20	
8	1,30	0,77	0,48	
9	1,19	0,71	0,44	
А	1,08	0,64	0,40	
В	0,97	0,58	0,36	Right-
C	0,87	0,51	0.32	turn
D	0,76	0,45	0,28	
Е	0,65	0,39	0,24	
F	0,54	0,32	0,20	







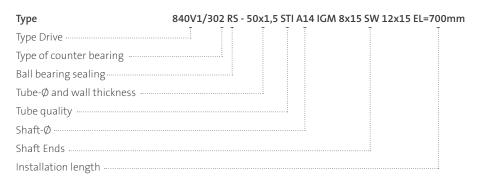
Accessories:

The motor cable can be extended by an additional cable.

Extension Cable 0,8m

Extension Cable 1,6m

Order Example



Technical Notes Tube/Shaft Page 7 Bearing Type Page 14 Generally Note Page 5



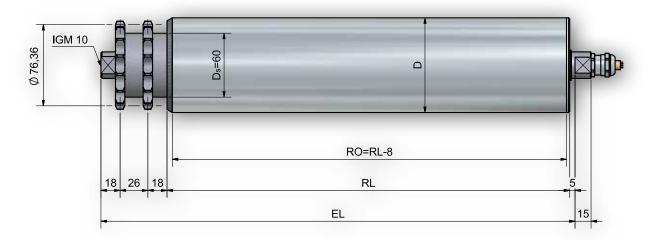


Variation	Peripherical Force in kW	Voltage in V	Rated Current in A	Frequency in Hz	Speed in m/s	Nominal torque in Nm	Starting torque in Nm
I / i=70:1	0,12	230/400	0,66/0,38	50	0,18	29	94
II / i=40:1	0,12	230/400	0,66/0,38	50	0,32	17	54

Possible variations for the counterbearing/drive element:

Tube dia.	A20	A25
88,9 x 2,9	402ST / 502 510 / 512 / 534	402ST / 510 512 / 534

Shaft dimensions:



Optional Coatings Page 10 Flange Page 236



Drive: Asynchronus Motor

Bearing Type Ball Bearing (Series 6005, 6204, 6205) DIN 625

Load Capacity/Roller 2.000N (depending upon the load limit of tube and shaft)

Max. Transportation Weight V1 (70:1) 15.000N (depending on the construction of the conveyor)¹

V2 (40:1) 10.000N (depending on the construction of the conveyor)²

Range of Temperature Celcius 0°C to +40°C

Min. Installation Length (EL) Type 402ST: 520 mm

Type 510: 580 mm

Motor Exit Shaft dia. 25mm with key flat SW 20 x 15

Nominal Power 3x230V / 400V AC Nominal Force 850V1: 650 N

850 V2: 400 N

Nominal Rating 0,12 kW
Nominal Current 0,66 / 0,38A
Nominal Current (neutral gear) 0,36 / 0,21 A

Nominal Frequency 50 Hz Nominal Speed 2.700 RPM

Number of Poles2Gears2Insulation ClassF³IP protection classIP 52

Note If the motor is connected to a single phase converter with 230 V power,

the motor power has to be 230V.

Technical Notes Tube/Shaft Page 7 Bearing Type Page 14 Generally Note Page 5

¹ when having 7 starts per minute (loaded 7s, Pause 1,5 s)

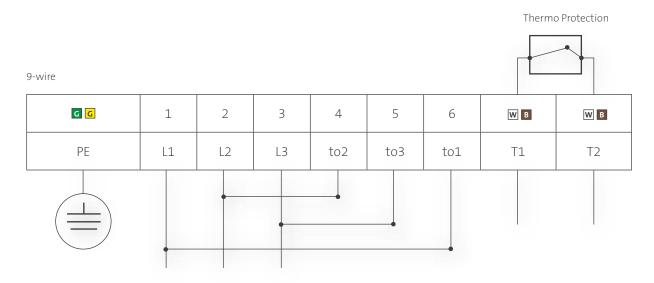
²when having 6 starts per minute (loaded 5s, Pause 5 s)

³thermal protection

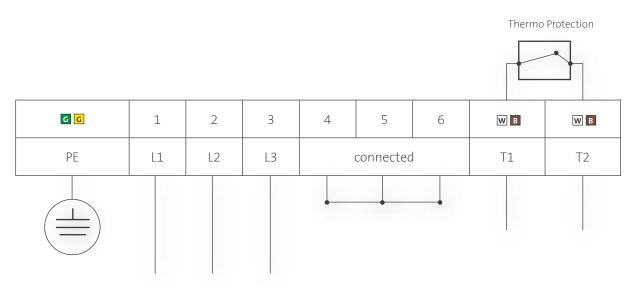


The Motor Roller is connected regarding the following scheme:

Delta (Δ) Connection

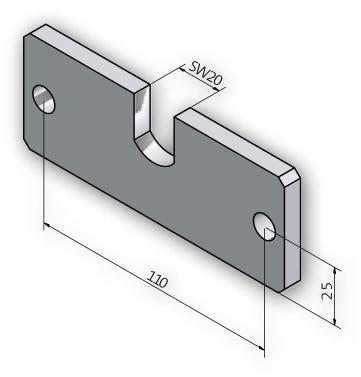


Star (Y) Connection

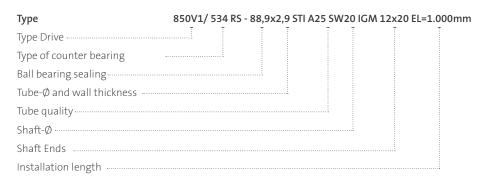




For securing the Motor Roller a torque bracket is added.



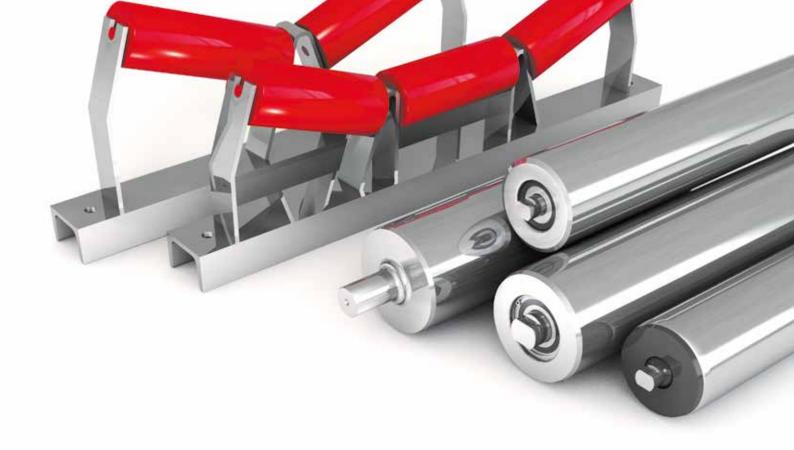
Order Example



Technical Notes Tube/Shaft Page 7 Bearing Type Page 14 Generally Note Page 5

Conveyor Belt Drums, Conveyor Belt Roller, Conveyor Belt Stations

Туре	Description	Page
400A	Belt Drum	220
402ST	Idler	220
Belt Station	Belt Stations	221
400	Belt Roller	222
402WO	Belt Roller	222

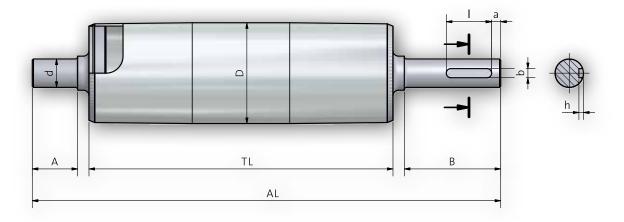




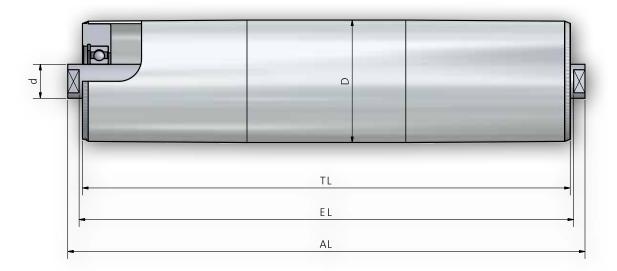


Conveyor Belt Drums

Type 400 A



Type 402 ST



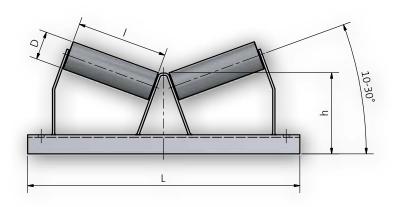
Possible Layouts:

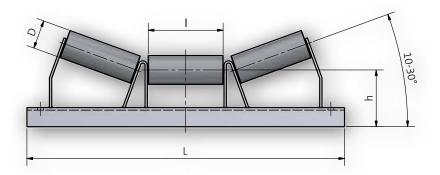
- Polyurethane
- fiber-glass reinforced Polyester
- Stainless Steel
- cylindrical or crowned



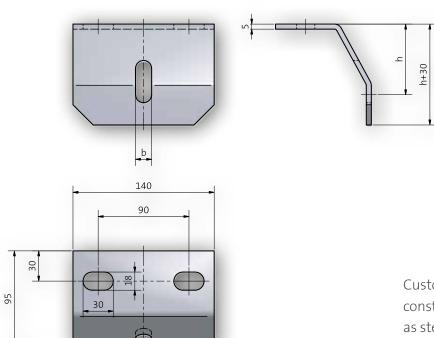
Conveyor Belt Stations

High- and Low-Conveyor Station





Made from U-structural steel DIN 59413



Customer Information! Various constructions and dimensions as well as steering and flat belt stations upon request.

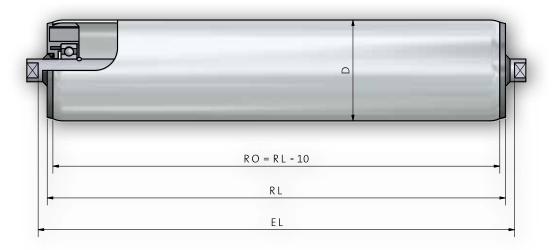


Conveyor Belt Roller

Roller for Conveyor Belt Stations

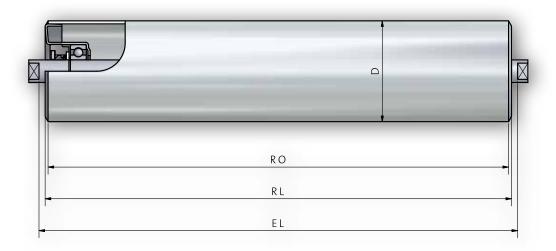
Roller Type 400

Tube-Ø 50, 60, 63.5, 80, 88.9, 90, 108, 133



Roller Type 402 WO

Tube-Ø 80, 88.9, 108, 133



The above shown roller is best for use in Conveyor Belt Stations.

Details please see Chapter 2 "Gravity -Roller / Conveyor-Roller", page 50 and 68.



Conveyor Belt Roller

End of shaft constructions: \emptyset 20 old standard SW 15 x 10/13

 \emptyset 25 old standard SW 18 x 10/13 \emptyset 20 new standard SW 14 x 10/13

Orders without specifications will be supplied with "old" standard.

Upper cor	Upper conveyor roller								
Tube-Ø	Shaft-Ø	Roller length in, EL = RL + 6 mm							
63,5	20	132	165	200	250	315	380	465	530
80	20		165	200	250	315	380	465	530
88,9	20 + 25		165	200	250	315	380	465	530
108	20 + 25		165	200	250	315	380	465	530
133	20 + 25				250	315	380	465	530

Lower cor	Lower conveyor roller								
Tube-Ø	Shaft-Ø	Roller length in mm, EL = RL + 6 mm							
63,5	20	400	500	600	750	950	1150	1400	
80	20	400	500	600	750	950	1150	1400	
88,9	20 + 25	400	500	600	750	950	1150	1400	1600
108	20 + 25	400	500	600	750	950	1150	1400	1600
133	20 + 25	400	500	600	750	950	1150	1400	1600

Belt pulley will be delivered with one roller housing end closed.

Various shaft- or tube-sizes and shafts with male or female thread available.

Selection table				Roller length re DIN 22107 in mm				
With of belt in mm	300	400	500	650	800	1000	1200	1400
Lower conveyor roller	400	500	600	750	950	1150	1400	1600
Upper conveyor roller, two pieces	200	250	315	380	465	600	700	
Upper conveyor roller, three pieces	132	165	200	250	315	380	465	530

Conveyor belt stations upon request (see page 213).

SW 30 as plastic slip-on cap for shaft- \emptyset 20 SW 15 (see page 13).

Back-up and buffer-rings in all sizes and variations (see page 229).

Brake [conveyor] roller

Туре	Description	Page
	Introduction	226
700	Brake conveyor roller	227
710-86 / 710-120	Brake roller	228







Brake [conveyor] roller

Brake (conveyor) rollers regulate the speed on the roller conveyor; they keep the charge at a constant velocity.

This is done by a planet gear pressing centrifugal brake shoes against the tube body – actually with a brake-force proportional to the applied rotation.

The distance of the brake rollers and the appropriate type of brake roller are determined by several factors:

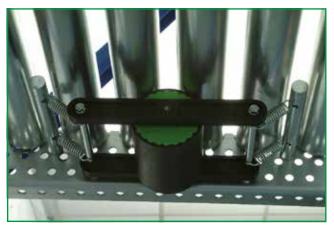
- design and functional performance of the roller conveyor
- inclination of the roller conveyor
- character of the charge (size, weight, sensitivity, material of the runners)
- inherent mechanical resistance of the brake roller
- environmental conditions like wetness, cold or heat

One brake roller is required per pallet place; by this a regulated speed can be achieved. The processing velocity should not exceed 0,3 m/sec.

With appropriate position of the brake rollers it will reach only 0,1 - 0,2 m/sec.



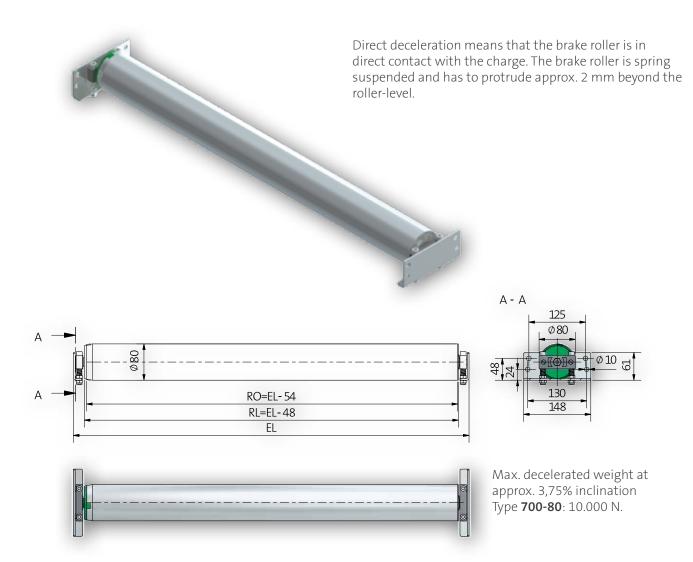
Type 700



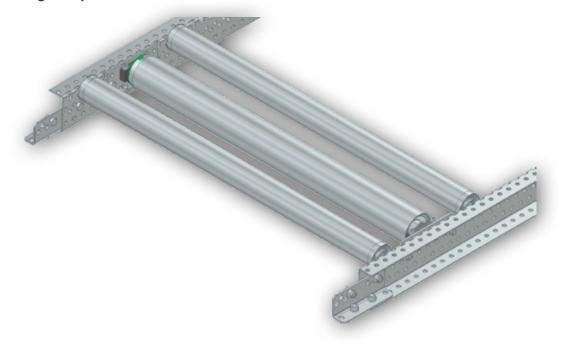
Type 710



Brake roller 700



Mounting example





Brake roller Type 710

The indirect deceleration is preferable in many cases, since the contact to the pallet is generated by two conveyor rollers. Four springs ensure this contact.

To establish a better contact between brake roller, conveyor roller and pallet a friction-tape can be applied to the conveyor rollers in the range of the brake roller.



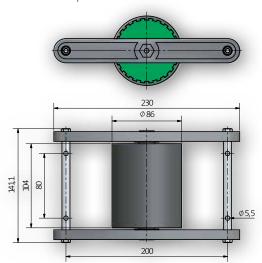


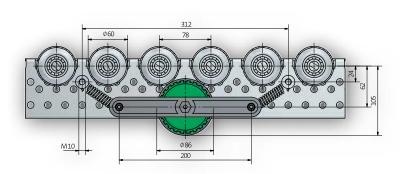
Brake roller Type 710

Type 710-86

Max. decelerated weight at approx. 3,75% inclination with Type 710-86: 5.000 N. To ensure the proper function of the brake roller, weights of not less than 800 N should be decelerated.

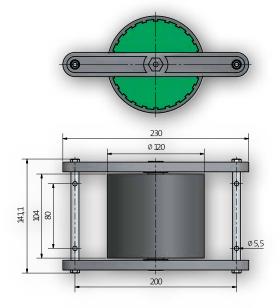
Order example: 710-86

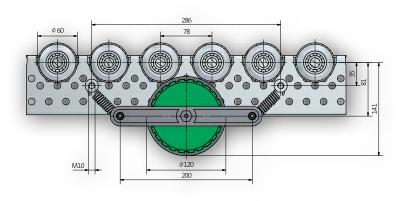




Type **710-120**

Max. decelerated weight at approx. 3,75% inclination with Type 710-120: 10.000 N. To ensure the proper function of the brake roller, weights of not less than 800 N should be decelerated. Order example: 710-120





Accessories

Туре	Description	Page
610 / 611	Plastic skate wheel D=48mm	232
612	Steel skate wheel D=48mm	232
620	Universal roller single part	234
625	Universal roller double part	234
div.	Guide Flanges	236
div.	Back Up Rings	237
div.	Buffer Rings	237
720	Pallete rail	238
723	Roller rail	242
726	Minirail	244

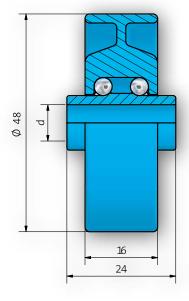






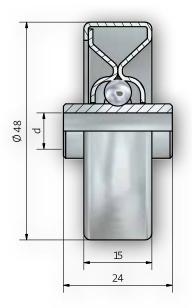
Type 610 / 611

Type 610 Plastic

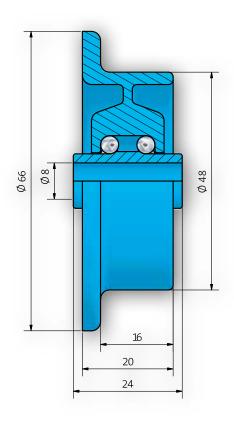


Type 612

Type 612 Steel galvanized



Type 611 Plastic





Type 610 / 611 / 612

Plastic Wheels Type 610 and 611 (guide flange) have a load capacity of 100 N.

Steel Wheels Type 612 with or without guide flange have a load capacity 200 N.

Available for shaft diameter 6 mm or 8 mm.

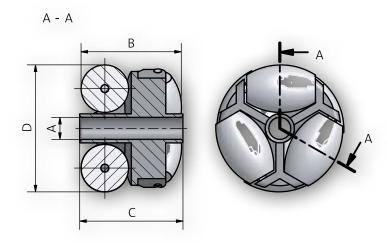
Wheels of the Types 610/611/612 are used in all areas of conveyor- and storage-technology for

- Flow-Trough Tracks
- Guide tracks, side deflector and load tracks in conveying systems
- Roller tracks for the combination of two workstations
- Packing machines
- Guide for driving belts

Order Example

	61	.0-A	۱6
Туре			-
shaft hole diameter			i

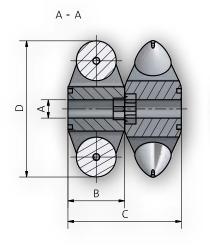


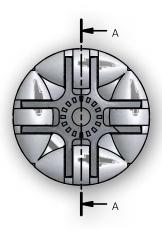


Plastic, one piece

D	40	48	60	80
А	8	8	8	8
В	26	37	47	60
C	29	39	48	64

Type 625





Plastic, two pieces

D	50	60	80	
А	8	8	8	
В	19,5	25	30	
C	39	51	60	



Type 620 / 625

Universal roller are used where packing drums, load carrier, packages, cartons or work pieces have to be turned, assorted, diverted, supplied or commissioned.

The size and the weight of the load regulate the pitch. Table surfaces of any sizes can be equipped with Universal Roller.

The following individual load capacities per roller should not be exceeded:

Ø 50 mm: 100 N
 Ø 60 mm: 200 N
 Ø 80 mm: 400 N

The universal roller can be used at a temperature range between -12° C and +80°C.

The universal rollers always have to be installed in main transport direction, as the resistance of the other direction is slightly higher.

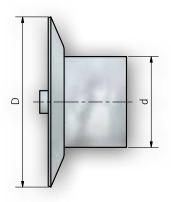
If equal resistances should be received in all directions, wheels have to be mounted staggered at 90°.

Order Example

	620	-D=4	8
Туре		Ī	
External diameter		i	

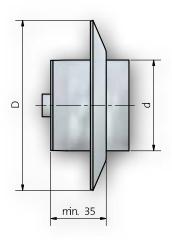


Flange Type A



	d	D	
	30	60	
А	40	60	
	50	70	

Flange Type B



	d			D		
	50	70				
	60	95	110	120		
D	63,5	130				
В	80	130	135	140	150	
	88,9	30	135	140	150	
	108	160				

Special dimensions upon request.

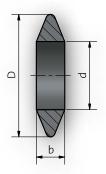
Order Example

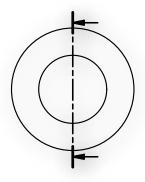
Flange Type B d=88,9 mm D=140 mm

Туре	<u>.</u>	Ī	
Inner diameter			
External diameter			



Back up ring

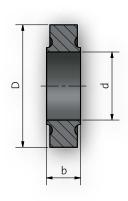


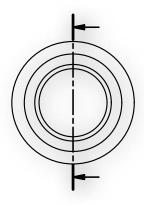


Tube-Ø	d	D	b	
63,5	60 60	108 133	25 30	
88,9	85 85	133 159	30 30	
108	104	159	30	

Special dimensions upon request.

Buffer ring





Tube-Ø	d	D	b	
50	48	89	30	
63,5	60 60	89 108	25 30	
88,9	86 86	133 159	35 35	

Order Example

Type Inner diameter

External diameter



The pallet rail Type 720 is a universal roller rail which is frequently used for pallet transport. Roller tracks for europallets, boxes and other carriers with roller rail approved surface are simply built of this item.

Equally for intralogistic, linking workspace or lateral guide – the pallet rail Type 720 is of versatile use.

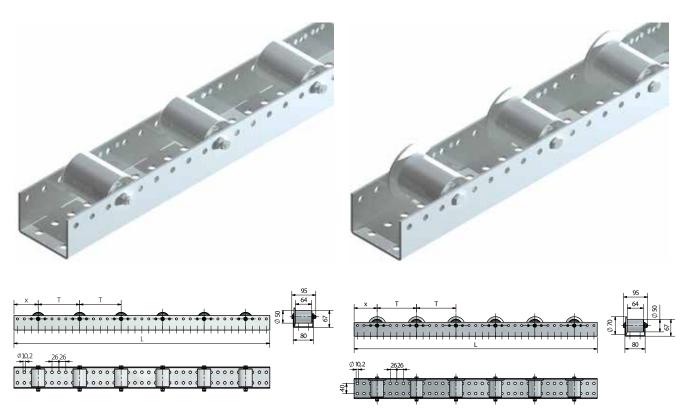
The pallet rail consists of a galvanized U-profile, 55 mm high and 80 mm in width. The profiles are equipped with rollers \emptyset 50 mm in a pitch of 52, 78, 104, 130, 156 mm etc.

Two additional holes in the bottom serve for mounting the rail onto a frame or directly to the ground.

Wy: 4,6 cm3

ly: 17 cm4

Available up to 6.006 mm increment 26 mm, intermediate on request (surcharge).



Pallet rail Type 720 – Technical Data

Applications	Pallettransport, intralogistic, linking of workspace, lateral guide
Rail material	galvanized U-profile
Load capacity per roller	steel roller 150 kg/pcs.
Moment of resistance – in cm³	4,6
Diameter in mm	50
Pitch in mm	52, 78, 104, 130, 156, etc.

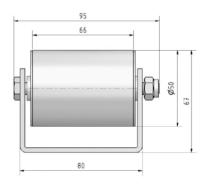


Type 720 - Accessories

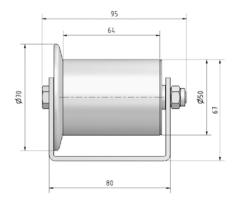
720 Profile Order example: 720 Profile L = 2.444



720 - 200-50x1.5 STI



720 - 200-50x1.5 STI SK





Pitch

52, 78, 104, 130, 156 increment 26 mm

Roller type

SK – flanged roller without designation – standard

Length

available up to 6.006 mm, increment 26 mm

Order example









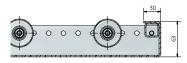




Type 720 - Accessories

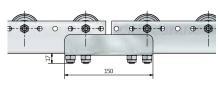
720 Roller protection





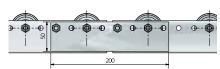
720 Connector U





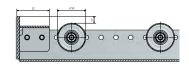
720 Connector side





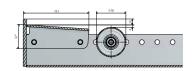
720 End stopper



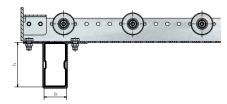


720 End stopper friction



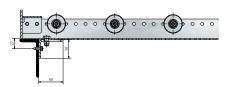


720 Fixing clip



Please give dimensions of rack beam when ordering e.g.: Fixing clip 100 x 50 for a beam with h = 100 mm and b = 50 mm (required when ordering, if req. drawing of beam)

720 Fixing angle



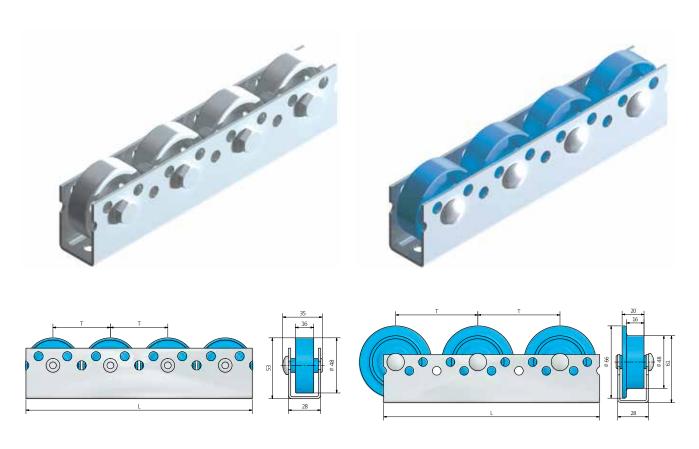


The roller rails consists of a cold-rolled, galvanized steel profile of 2 mm thickness. The profile has laterally two distinct series of holes at different heights with a pitch of 25 mm. The diameter is 8,1 mm.

The design of the rail allows to fix the \emptyset 48 mm roller either with tubular rivets (standard) or bolts M8 in a screen width of 50 mm, 75 mm, 100 mm etc.

Several rollers can be placed side by side in one, two, three or more rails. Furthermore the rollers can be placed with offset and different roller types can be combined.

Available up to 6.000 mm Increment 25 mm – 3 mm offcut Intermediate on request (surcharge)



Roller rail Type 723 - Technical Data

Applications	carton- & plastic box transport, flow-throug-rack, commissioning store, guide, assembly maschines
Rail material	galvanized steel profile
Load capacity per roller	plastic roller 10 kg
	steel roller 20 kg
Moment of resistance – in cm³	2,2
Diameter in mm	48
Length in mm	6.000
Pitch in mm	50, 75, 100, usw.



Pitch:

50, 75, 100, 125, 150 increment 25 mm

Roller type:

A – All-side roller
K – plastic roller
SPK – flanged roller - plastic
SPS – flanged roller - steel
w. d.* – steel roller

Position hole series

O – upper series w. d.* – lower series (Standard, except for flanged rollers)

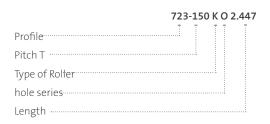
Length

Available up to 6.000 mm Total length: x × 25 mm – 3 mm offcut

723 Profile

723 End stopper

Order number





^{*} without designation

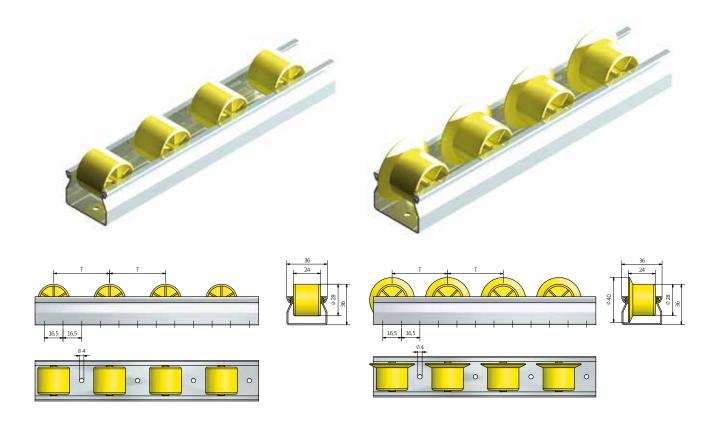


The main field for minirals is the use in flow through-racks. Also, the stable running of transport boxes and cartons allows various application

- guiding rails for conveyors
- rail-tracks and rail-carpets for linking workstations
- Packing and commissioning tables
- assembly aid, e. g. in wood-processing and window production

The steel shaft of the wheel warrants high load capacity and a very low frictional resistance. The wheels consists of high-quality thermoplastic resin, which is impact-resistant. The material is resistant against acids and lyes and does not absord moisture.

The torsion-resistant minirall-profile is a rolled galvanized steel-sheet and has its edges rounded in all directions. Due to application different pitches (33 mm, 50 mm, 66 mm, 83 mm, 100 mm etc.) as well as flanged or standard wheels may be applied.



Minirail Type 726 – Technical Data

Applications	rail-tracks, rail-carpets, guide, worktable, linking worktables
Rail material	Steel profile
Load capacity per wheel	plastic wheel 2 kg/pcs.
Moment of resistance – in cm³	0,5
Diameter in mm	28
Pitch in mm	33, 50, 66, 83, 100, usw.
temperature range (°Celsius)	-30 to +80



Pitch:

33, 50, 66, 83, 100 increment 16,5 mm

Wheel type:

w.d*. – plastic wheels SPK – flanged wheels - plastic G – split wheels TK – deep-freeze L – conductive

Length

Available up to 4.500 mm Increment 16,5 mm

Order example



The miniral with steel shaft for smooth material flow and noiseless transport is:

- strong and tough
- economic and reasonably-priced
- variably deployable

Wheels available for deep-freeze

→ and conductive

→ various colours on request

Available up to 4.500 mm

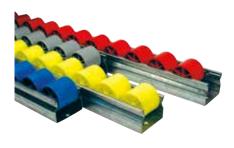
increment 16,5 mm, intermediate on request

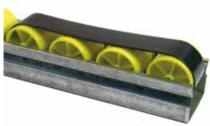
726 Profile



726 Profile - split wheel









^{*} without designation



Type 726 - Accessories

Plastic guide central / lateral order example: 726-plastic guide central





Braking ramp order example: 726-braking ramp

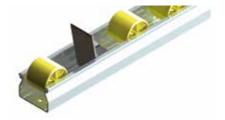




Holding clip order example: 726-holding clip



End stopper / anti-return buffer order example: 726-end stopper







Conditions of sale and delivery

§ 1 General

1. Our terms and conditions of business shall apply exclusively: These conditions of supply and payment apply for all deliveries. Any different conditions on the part of the customer only apply in so far as they are expressly recognised by us in writing. A contract is established when Rollex issues the written confirmation of order, unless otherwise agreed.

Written order confirmation of Rollex is decisive in regards to the scope. Changes and additions must be made in writing. This also applies if this requirement for written form is to be written.

Rollex retains title and copyright in samples, cost estimates, drawings and other information, both tangible and intangible, including in electronic form; such items may not be made accessible to third parties. Rollex will only make information and documents which are marked as confidential by the customer available to third parties with the agreement of the customer.

§ 2 Price and payment

The prices shown in the order confirmation apply ex works in the absence of express agreement to the contrary, without packaging, free on truck or rail, without transport insurance. The valid legal rate of VAT is to be added. In the absence of agreement to the contrary, payment shall be made on account without any deduction, due on delivery. The right to withhold payment or to offset counterclaims is only available to the customer in so far as his counterclaims are undisputed or legally established.

§ 3 Time of delivery, Delay in delivery

The time and period of delivery result from the agreements between the contractual partners. Fulfilment of the agreements on the part of Rollex assume that all commercial and technical questions between the parties have been clarified and the customer has also fulfilled all his obligations, such as for example provision of the necessary official approvals or certificates and payment of a deposit if so agreed. If this is not the case, the delivery period shall be prolonged correspondingly, or alternatively by an appropriate period. This does not apply if the delay is due to the supplier. Fulfilment of the period of delivery is subject to correct and timely supply of goods by the supplier's subcontractors. Any delays which are anticipated must be communicated by Rollex as soon as possible.

The delivery period is considered fulfilled if the object of the delivery has left Rollex's factory by the end of the period. If despatch or acceptance of the object of the delivery is delayed for reasons which are due to the customer any costs accruing from the delay shall be charged to the customer, starting one month after reporting of the readiness for despatch or acceptance.

If non-fulfilment of the delivery period is due to force majeure, labour conflicts or other events outside the sphere of influence of the supplier, the period of delivery shall be prolonged accordingly. Rollex will inform the customer of the start and end of such circumstance-Page The customer can withdraw from the contract if the entire performance becomes impossible for Rollex before transfer of risk.

The customer can also withdraw from the contract in case execution of a part of the delivery becomes impossible, and he has a justified interest in refusing the partial delivery. If this is not the case, the customer must pay the contractual price which is due for the partial delivery. The same applies if Rollex cannot supply the performance.

§ 4 Transfer of risk, acceptance

The risk is transferred to the customer when the object of delivery has left the factory, even if partial deliveries take place or Rollex has taken over other performance, e.g. despatch costs or delivery and erection. If an acceptance procedure has to be implemented, acceptance is decisive for transfer of risk. It must be carried out immediately at the acceptance date or alternatively after report by the supplier that the item is ready for acceptance. The customer may not refuse acceptance in the case of non-serious fault. Partial deliveries are permissible in so far as reasonable for the customer.

§ 5 Retention of title

Rollex retains the title to the object of delivery until all payments arising from the supply contract have been met. The customer may neither sell nor pledge the object of delivery nor offer it as security. The customer must inform the supplier immediately in case of pledge or seizure or other similar actions affecting the goods on the part of third parties.

If the customer behaves in such a way as to infringe the contract, in particular in case of delay of payment, Rollex is entitled to take back the object of delivery after issuing a warning and the customer must return the goods. Based on his retention of title, the supplier can only demand return of the goods when he has withdrawn from the contract. Application for opening of insolvency proceedings on the part of the customer entitles Rollex to withdraw from the contract and to request immediate return of the object of delivery.

§ 6 Claims resulting from defects

Rollex provides warranty for defects as to the quality of the goods or for defect of title, excluding further claims.

Defects in quality:

All parts which prove defective as a result of circumstances lying before the time of acceptance must be repaired or replaced by perfect goods at the discretion of the supplier. Any faults which are discovered must be communicated to Rollex immediately in writing.

The customer must agree on the time needed for repairs and replacement and accord Rollex such time and also opportunity; otherwise Rollex is freed from liability for any resulting consequences. Only in cases where operational safety is at stake or in order to prevent disproportionate damage, has the customer the right to repair defects himself or have them repaired by third parties and to demand compensation for the resulting costs. The supplier must be informed immediately. Any immediate costs resulting from the repair or replacement shall be paid by Rollex, in so far as the complaint proves to be justified, including costs of the replacement and despatch. Rollex shall not bear the cost for dismantling and installing the part or costs for supply of the necessary operators and auxiliary workers, including travel costs.

Within the framework of the legal regulations, the customer has the right to withdraw from the contract if Rollex allows a suitable period for repair or replacement of an item which exhibits quality defects to pass without action, taking legal exceptions into consideration. If only a slight defect is present, the customer only has the right to reduction of the contractual price. The right to reduce the contractual price is otherwise excluded.

In particular, no warranty is accepted in the following cases: unsuitable or improper use, incorrect assembly or commissioning by the customer or a third party, natural wear and tear, incorrect or careless treatment, improper maintenance or repair, use of unsuitable operating materials, unsuitable construction work, unsuitable building land, chemical, electrochemical or electrical influences in so far as they do not lie within the sphere of responsibility of Rollex. If the customer or third party carries out unsuitable repairs, Rollex shall not be responsible for any consequences which may result. The same applies for changes to the object of delivery carried out without the prior agreement of the supplier.

§ 7 Liability

In case of liability which is legally specified and which does not depend on blame or fault, in particular for liability resulting from guarantee or from product liability law, Rollex shall accept unlimited liability. In the case of other infringements of obligations, Rollex shall only be liable for deliberate intent and gross negligence. This limitation shall also apply for legal representatives, employees, staff and vicarious representatives of Rollex. In so far as any obligation is infringed which is of particular significance for fulfilment of the contractual goals (cardinal duty), Rollex shall also accept liability in cases of slight negligence. However, liability for indirect and unforeseeable damages as well as for damages consequential upon defects and loss of profit, savings which have not been achieved, damage to assets because of claims of third parties or other consequential damage, Rollex shall only be liable for infringement of a cardinal obligation in cases of intent and gross negligence.

The liability of Rollex is limited to three times the net invoiced amount of the goods or services giving rise to the claim.

§ 8 Period of limitation

All claims of the customer based on any legal grounds whatsoever, lapse regarding to statute of limitations according to the laws of the BGB. They also apply for defects in a building or for objects of delivery which are used corresponding to their general use for a building and which have caused defects in the building.

§ 9 Governing law, legal venue

All legal and contractual relationships between Rollex and the Customer shall be regulated by the governing law of the Federal Republic of Germany. The Uniform Law regarding International Sale of Goods of 17.07.1973, BGBI1856-EKAG is excluded. The legal venue shall be the court responsible for the registered office of Rollex.

§ 10 Validity of Contract

If any provision of this contract should be currently invalid or incapable of implementation or should prove so in future, the validity of the remaining provisions shall not be affected.

No liability assumed! Technical changes and factual errors reserved. Mappings and images possibly differ from original.



Caption SK = Gravity- and Conveyor Roller $FR = Friction \ roller$ $FR = Friction \ roller$ $FR = Friction \ roller$ $FR = Friction \ roller$ $FR = Friction \ roller$ adjustable FG = Speed

		Steel tube	-		KK	= Plastic tube FG = Speed	Canadita								T. 16				
	Page					Description	Capacity max. [N]								60	e diame 60.3		63.5	
	22	50				Bearing housing with Ball Row	200	X	x	х	X	х							
	24	60				Bearing housing with Ball Bearing	600			х	×	×							
	26	100				Bearing housing with Ball Row	200							х	Х	х	Х		X
	28	150				Bearing housing with Slide Bearing	150							Х	Х	Х	Х		X
	30 32	200 220				Steel housing with Ball Row Steel housing with Ball Row	1600 2400			X		X		X	X				
	34	250				Steel housing with Precision Ball Bearing	2400					×		X	X				
5	36	260				Steel housing with Precision Ball Bearing	5000											×	
Gravity- and Conveyor Roller	38	290				Steel housing with Precision Ball Bearing	1200					x							
orR	40	300				Bearing housing with Ball Bearing	1600						×	X	Х	х	х	Х	×
Ne.	42	301				Bearing housing with Ball Bearing	1600							X	Х		Х	Х	X
Ö	44 46	302 306				Bearing housing with Ball Bearing Bearing housing with Ball Bearing	1600					.,		X	X				
and	48	320				Bearing housing with Ball Bearing Bearing housing with Ball Bearing	600			X		X	×	X	Х			X	
4	50	400				Bearing housing with Ball Bearing	3600							X	X			x	
ravi	52	400 ST				Steel housing with Precision Ball Bearing												X	
U	54	401				Bearing housing with Ball Bearing	1600					×		х					
	56	402				Bearing housing with Ball Bearing	3600					X			Х			Х	
	58	402 K				Bearing housing with Ball Bearing						X		Х					
	60 62	402 ST 402 WT				Steel housing with Precision Ball Bearing	2400							· ·	V			X	
	64	402 W1				Steel housing with Precision Ball Bearing Steel housing with Precision Ball Bearing	6000							X	X			×	
	66	402 WST				Steel housing with Precision Ball Bearing	3600												
	68	402 WO				Steel housing with Precision Ball Bearing	3600												
	72			420		Thermoplastic synthetic material - Ripped-V-Belt PJ profile	500							х					
	74		421			Steel - Ripped-V-Belt PJ profile	500							×	×		х		
	76		433	423		Thermoplastic synthetic material - Round belt with two grooves	300							X					
	78 80		432 435	433 436		Steel double chain sprocket 3/8x7/32" z=12 Steel single chain sprocket 3/8x7/32" z=10	400 400			X	X								
	80		435	436		Steel single chain sprocket 3/8x7/32" z=10 Steel single chain sprocket 3/8x7/32" z=10	400			×	X								
	84		445	446		Thermoplastic synthetic material - tooth belt wheel T8 z=20 Polychain	600							x	x		х	x	
	86				445 R ST	Steel - tooth belt wheel T8 z=20 Polychain	1000							X	X		X	x	
	88			447		Steel - tooth belt wheel T8 z=20 Polychain	1500							x	×			×	
	90		450	451		Thermoplastic synthetic material - single chain sprocket 1/2x5/16" z=11	400							×	×	х	х	×	×
	92 94		452	453		Thermoplastic synthetic material - single chain sprocket 1/2x5/16" z=11	400							X	X	X	Х	X	Х
	96		454	455	454 R	Steel single chain sprocket 1/2x5/16" z=11 Steel single chain sprocket 1/2x5/16" z=11	1000 1000							X	×	X	X	×	X
	98				456	Steel single chain sprocket 1/2x5/16" z=11	1000							X	×	×	^	×	×
	100		457	458		Steel single chain sprocket 1/2x5/16" z=11	1000							X	X	X	х	X	X
	102		462	463		Steel single chain sprocket 5/8x3/8" z=12	1000							х	×	х	х	х	х
	104				462 R	Steel single chain sprocket 5/8x3/8" z=12	1000							х	Х	х	Х	Х	Х
	106			464		Steel single chain sprocket 5/8x3/8" z=12	1500							х	Х	х		Х	Х
	108		470	471		Thermoplastic synthetic material - single chain sprocket 1/2x5/16" z=14	400							X	Х	X	Х	X	X
ier i	110 112		480 500	481 501		Thermoplastic synthetic material - double chain sprocket 1/2x5/16" z=14 Steel double chain sprocket 1/2x5/16" z=14	400 1000							X	X	X	X	X	X
Driven Roller	114		300	301	500 R	Steel double chain sprocket 1/2x5/16" z=14	1000							X	X	×	X X	×	X X
<u>i</u> ver	116			502	300 K	Steel double chain sprocket 1/2x5/16" z=14	1500							X	X	x	X	×	X
ā	118		506	507		Steel single chain sprocket 1/2x5/16" z=14	1000							x	×	х	х	х	х
	120				506 R	Steel single chain sprocket 1/2x5/16" z=14	1000							х	Х	х	х	х	х
	122			508		Steel single chain sprocket 1/2x5/16" z=14	1500							Х	×	х	Х	Х	Х
	124			510		Steel double chain sprocket 5/8x3/8" z=15	3400											Х	
	126 128			511 512		Steel single chain sprocket 5/8x3/8" z=15	3400 4000											X	
	130			512		Steel double chain sprocket 3/4x7/16" z=13 Steel single chain sprocket 3/4x7/16" z=13	4000												
	132			516		Thermoplastic synthetic material - tooth belt wheel T8 z=30 Polychain	1800												
	136			517		Thermoplastic synthetic material - tooth belt wheel T8 z=24, 25, 30, 34 HTD	1800												
	138			518		Thermoplastic synthetic material - double chain sprocket 5/8x3/8" z=18	1800												
	140			519		Thermoplastic synthetic material - single chain sprocket 5/8x3/8" z=18	1200												
	142 144		520		520 R	Steel double chain sprocket 5/8x3/8" z=15 Steel double chain sprocket 5/8x3/8" z=15	1800 1800												
	146		521		320 K	Steel single chain sprocket 5/8x3/8" z=15	1800												
	148		521		521 R	Steel double chain sprocket 5/8x3/8 z=15	1800												
	150			522		Thermoplastic synthetic material - double chain sprocket 5/8x3/8" z=15	1200												
	152			523		Thermoplastic synthetic material - single chain sprocket 5/8x3/8" z=15	800												
	154				533 R	Steel - tooth belt wheel T8 z=30, 34 HTD	1800												
	156 158			534 539		Steel - tooth belt wheel T8 z=30, 34 HTD Steel - Ripped-V-Belt PK profile	2000 2000												
	164		540	541		Thermoplastic synthetic material - double chain sprocket 1/2x5/16" z=14	400							X					
	166		542	543		Thermoplastic synthetic material - single chain sprocket 1/2x5/16" z=14	400							X					
	168		550	551		Steel double chain sprocket 1/2x5/16" z=14	400							x					
ler	170		552	553		Steel single chain sprocket 1/2x5/16" z=14	400							X					
Rol	172		FCC	563		Steel double chain sprocket 3/8x7/32" z=12	200		X										
Conical Roller	174 176		566	567 568		Steel double chain sprocket 3/8x7/32" z=12 Thermoplastic synthetic material - Ripped-V-Belt PJ profile	100 400			Х				×					
Ō	178			570		Thermoplastic round belt pulley with 2 grooves	300							X					
	180	600				Thermoplastic syntethic material - Steel housing with Precision Ball Bearing	400							X					
	182	601				Thermoplastic syntethic material - Steel housing with Precision Ball Bearing	100		х										
	184	602				Thermoplastic syntethic material - Steel housing with Precision Ball Bearing	200			X					<u> </u>				
re	191					530 Clutch up to 1 0.000N													
ssul Syst	192 195					531 Clutch up to 1.200N 530 Z / 531 Z Pneumatic cylinder													
Pre /ing	197					536 E Electromagnetic Clutch 24V DC													
Zero Pressure Conveying System	199					Rollex Drive System													
	203					Rollex-Multi-Drive Card													
Motor	210					Motor Roller 24VDC								х					
Roller	212					Motor Roller / Drum Motor Type 850-89													
e	220 220					Type 400A Belt Drum Type 402ST Idler													
Belt Roller with	222					Type 400 (Belt Roller)													
3elt w	222					Type 402 WO (Belt Roller)													
ш	221					Accessories													
Brake	227					700 Brake conveyor roller													
(Convey-	229					710-86 Brake roller													
or) Roller	229					710-120 Brake roller Guide Flanges, Buffer rings, Back up rings													
Acce-	236 238					Pallete rail													
ssories	242					Roller rail			·				I	-					1

												Shaft di								
X	x x x x x x x x x x x x x x x x x x x	x x	x x x x x x x x x x x x x x x x x x x	x x x	x x x x x x x x x x x x x x x x x x x	x x x x	\$ x	x x x	x x x x x x x x x x x x x x x x x x x	x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	0,3 0,5 0,3 0,6 1,2 1,2 2 2 2 1,2 1,2 1,2 1,2 1,2 1,2 1	Floating bearing Groove for belt drive Guide Flanges Capacity depending upon the load limit of tube and shaft Capacity depending upon the load limit of tube and shaft Capacity depending upon the load limit of tube and shaft
x x x x x x x x x x x x x x x x x x x	x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x			x x x x		x x x x x x x x x x x x x x x x x x x	x x x	x	x	x	x x x x x x	X X X X X X X X X X X X X X X	x x x x x	1,2 1,2 1,2 0,5 1,2 0,5 1,2 0,5 1,2 0,3 0,3 0,8 0,8 0,8 1,2 0,3 0,3 0,3 0,3 0,3 0,3 0,3 0,3 0,3 0,5 0,5 0,5 0,5 0,5 0,5 0,5 0,5 0,5 0,5	Drive fuse Floating bearing Drive fuse able to use as Deflection roller (Normal tooth form) Drive fuse Drive fuse Drive fuse Drive fuse Drive fuse Drive fuse Drive fuse Drive fuse Drive fuse Drive fuse Drive fuse Drive fuse Drive fuse
					X															



Construction Advice/Load Data

Common Construction Advice:

- for straight and quiet running of the goods please look for parallelism of shafts, institutional roller level and parallelism of the roller track.
- look for environmental conditions (dust, wetness, acidics etc.)
- electrostatic charging
- maximum roller length/loads of the different materials (steel-or plastic-tube)
- tolerance of the tube (page 7)
- different rolling resistance of the bearings
- no plastic parts for higher temperatures
- for uneven surfaces note different load distribution
- installation length that are longer than listed upon request
- colour deviations possible

Construction advice driven roller:

- do not alternate accumulation roller with positive drives
- for uneven surfaces use adjustable accumulation roller
- bolt tooth form only for tangential drive
- pressfit permanent drive only for continuous conveying, welded sprockets for stop and go
- welding seam perhaps higher than tube level
- look for the maximum speed for the drive elements
- look for tolerance of chains and drive belts
- breaking load of the chains
- motor placed centrical
- In accumulating roller the accumulation bush should be covered.

 This is to prevent contamination between the drive element and accumulation bush.



Steel tube - Area loading in N

			CI	amping leng	gth			
Tube diameter in mm	200 mm	400 mm	600 mm	800 mm	1000 mm	1200 mm	1400 mm	
16 x 1	80	60						
20 x 1,5	150	100	80					
30 x 1	200	150	120					
30 x 1,5	250	200	160					
32 x 2	300	250	200					
40 x 1,5	1000	800	550	450				
40 x 2	1100	900	650	500				
40 x 3	1400	1300	1200	800	400			
50 x 1,5	1600	1500	1400	900	600			
50 x 2	1800	1700	1600	1000	700	450		
50 x 3	2500	2400	2000	1300	750	550		
60 x 2	2800	2700	2300	1500	800	600	350	
60 x 3	3000	2800	2700	2300	1600	700	500	
63,5 x 2,9	3500	3400	3300	3200	3000	2000	1800	
70 x 2	1700	1700	1700	1500	1100	800	500	
70 x 2,9	3500	3500	3500	3200	3000	2000	1800	
80 x 2	2000	1800	1700	1600	1400	600	400	
80 x 3	3600	3500	3400	3300	3000	2200	1900	
88,9 x 2,9	4200	4000	3800	3700	3600	2500	2000	
108 x 3,25	4500	4500	4500	4200	4000	3500	2600	
133 x 3,6	4600	4500	4500	4300	4300	4200	4000	

Plastic tube - Area loading in N

			CI	amping leng	gth		
Tube diameter in mm	200 mm	400 mm	600 mm	800 mm	1000 mm	1200 mm	1400 mm
20 x 1,5	80	40					
30 x 1,8	200	100					
40 x 2,3	300	200					
50 x 2,8	400	300	100				
63 x 3	500	400	350	300			
90 x 7	800	700	500	400	350	200	100

Shaft - attached fixing - static loading in $\ensuremath{\mathsf{N}}$

			Cl	amping leng	gth		
Tube diameter in mm	200 mm	400 mm	600 mm	800 mm	1000 mm	1200 mm	1400 mm
A6	1600	1100	1000				
A8	2400	2200	2000				
A10	3800	3600	3400	4500	3500		
A12	4200	4000	3800	3600	3400	3200	
A14	4600	4400	4200	4000	3800	3600	
A15	4800	4600	4400	4200	4000	3800	
A17	5100	5100	5100	5100	5000	4900	4800
A20	5600	5600	5600	5600	5400	5200	5000
A25	6200	6200	6200	6200	6000	5800	5600
A23	0200	0200	0200	0200	6000	3600	3600

Shaft - loose fixing - static loading in N

			CI	amping leng	gth		
Tube diameter in mm	200 mm	400 mm	600 mm	800 mm	1000 mm	1200 mm	1400 mm
A6	400	100					
A8	700	500	250				
A8 SK	800	600	400				
A10	1400	1000	800	500	350		
A11 SK	1600	1100	900	600	400		
A12	1800	1200	900	600	400	200	
A14	2400	2000	1500	1200	1100	1000	
A15	2800	2400	2000	1700	1300	1200	
A17	3200	3000	2600	2100	1800	1600	1400
A20	4400	4200	4000	3800	3400	3000	2500
A25	4800	4300	4500	4400	4100	3500	3000



Weight

Shaft	Dimension in mm	Weight in kg/m
	5	0,154
	6	0,222
	8	0,395
	ASK 8	0,435
	10	0,617
	11	0,823
	ASK 11	0,823
	12	0,888
	14	1,208
	15	1,387
	17	1,782
	20	2,466
	25	3,853

Plastic tube	Dimension in mm	Weight in kg/m
	20 x 1,5	0,137
	30 x 1,8	0,245
	40 x 2,3	0,419
	50 x 2,8	0,64
	63 x 3	0,87
	90 x 7	2,809

Steel- and Stainless Steel tube	Dimension in mm	Weight in kg/m
	16 x 1	0,37
	20 x 1,5	0,684
	30 x 1	0,715
	30 x 1,5	1,054
	32 x 2	1,48
	40 x 1,5	1,425
	50 x 1,5	1,794
	50 x 2	2,368
	50 x 3	3,477
	60 x 2	2,861
	60 x 3	4,217
	60,3 x 1,65	2,385
	63,5 x 2,9	4,334
	70 x 2	3,354
	70 x 2,9	4,83
	80 x 2	3,847
	80 x 3	5,696
	88,9 x 2,9	6,151
	88,9 x 5	10,36
	108 x 3,25	8,396
	133 x 3,6	11,488