


CARRIER ROLLERS



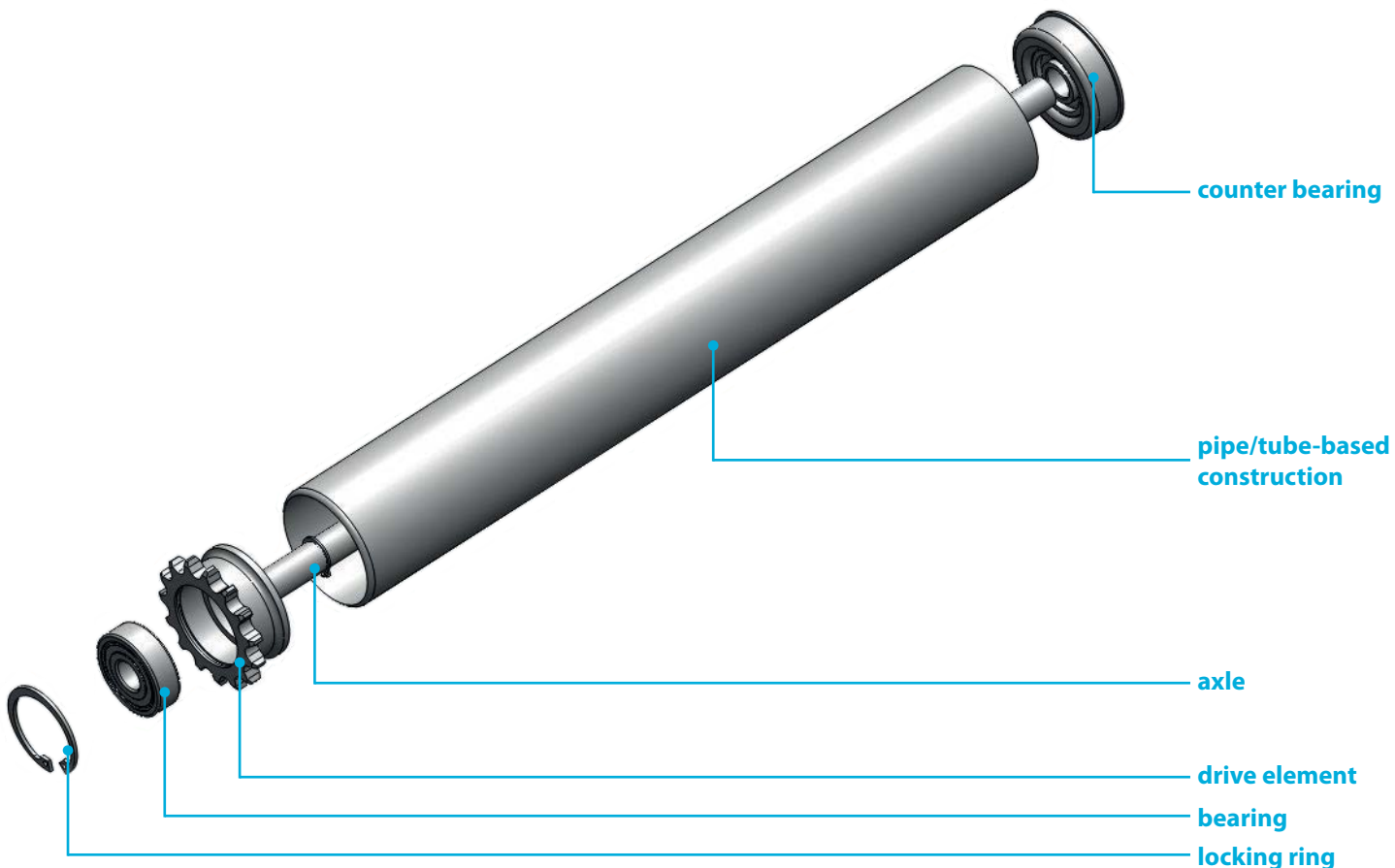
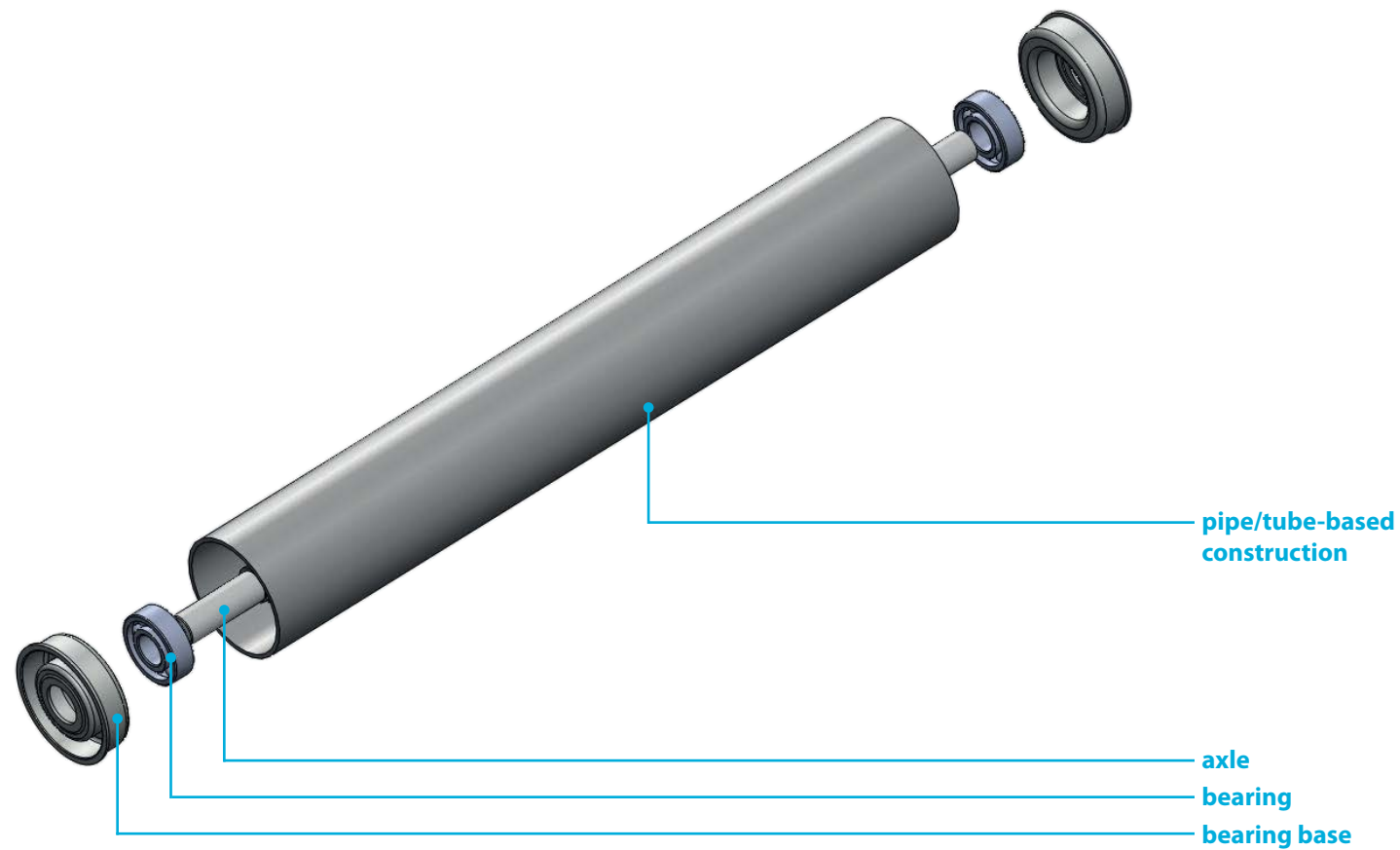
SERIES	plastic bearing cover	steel bearing cover	welded bearing	welded bearing	single chain wheel		double chain wheel	round belt drive	toothed belt drive	drum motor	brake carrier roller	bearing-supported carrier rollers and accessories
LOAD CAPACITY	10 kg - 240 kg	60 kg - 400 kg	400 kg - 560 kg	10 kg - 80 kg	30 kg - 350 kg		30 kg - 350 kg	240 kg - 400 kg	40 kg - 100 kg	-	pallet weight up to 1,400 kg	-
DIAMETER	16 mm - 108 mm	20 mm - 108 mm	63.5 mm - 159 mm	30 mm - 120 mm	30 mm - 120 mm		50 mm - 133 mm	50 mm - 88.9 mm	50 mm - 90 mm	60 mm - 415 mm	80 mm	-
STARTING FROM PAGE	478	490	496	500	506		518	536	538	544	546	550

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General information about carrier rollers

Guide for selecting your carrier rollers

1. The following specifications must be defined before selecting the carrier rollers:

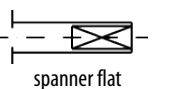
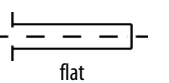
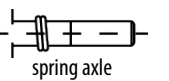
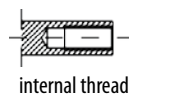
- description of application
- goods being conveyed (l x w x h)
- weight (distributed load, point load)
- environmental factors (e.g. humidity, temperature, dust)
- gravity-driven or power-driven carrier roller
- conveying velocity
- electrostatic charge

2. Selecting the carrier rollers:

- material of the carrier rollers
- diameter of the tube and the axle
- model / type of bearing
- type of mounting / type of axle end
- type and design of drive
(fixed drive, accumulating drive)
- installation length (EL)
- available accessories
- available coatings
- optional special construction

INFO

Axle finishing process



Key information about type and design of drive

Functionality of an accumulating conveyor roller

There is no solid connection between the drive element and the roller body. The constant drive force is implemented using only the friction within a slide bushing located between these two components. When the conveyed goods accumulate in a position, the roller body stops and the drive component continues to run. Once the stop function is re-activated, all rollers start to turn and the conveyed goods resume movement.

Caution:

The take-along force depends on the goods being conveyed and their weight (coefficient of friction: 5-7% of the weight of the conveyed goods), the support points and any lubricants in use.

Pre-tensioning the round belt

The tension-mounted round belt provides the drive power for the rollers. The initial tension on the round belt is -10% of the center distance between the center drive shaft and carrier roller axle.

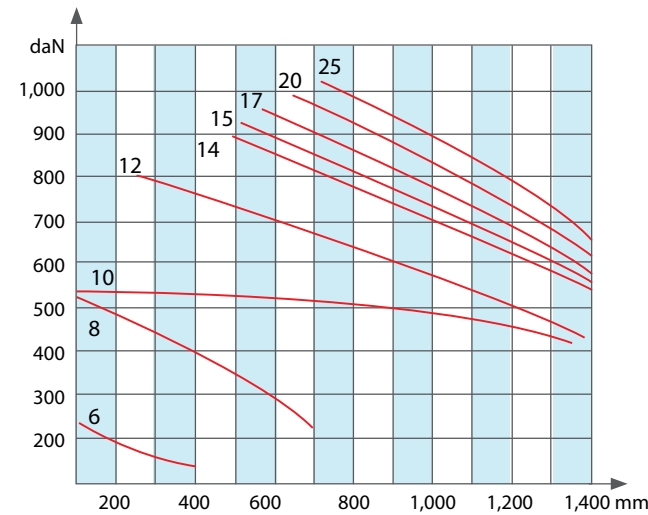
In addition: You should take into account that a static charge on the rollers can occur when non-electrically conductive bearing bases are used. This could then lead to a discharge spark between the roller and the frame.

Maximum permissible static surface load on the tubes

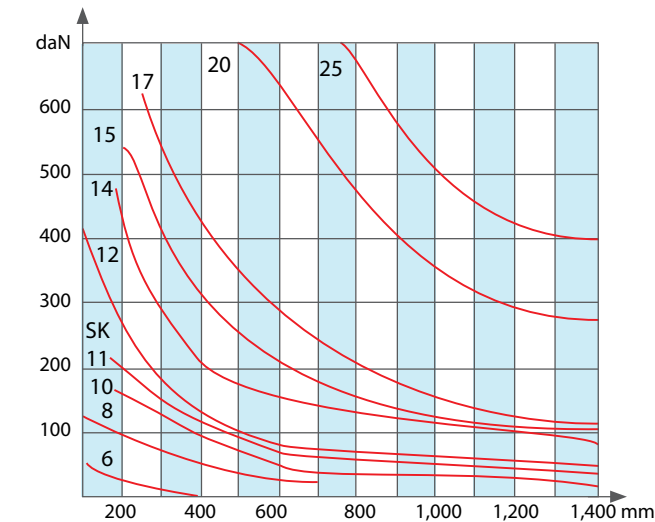
The design of a carrier roller is determined by three components: the bearing insert, the tube and the axle. The load capacity depends on the load limit of the particular component. The weakest component thus defines the load-carrying capacity.

Static load on the axles

with clamped support

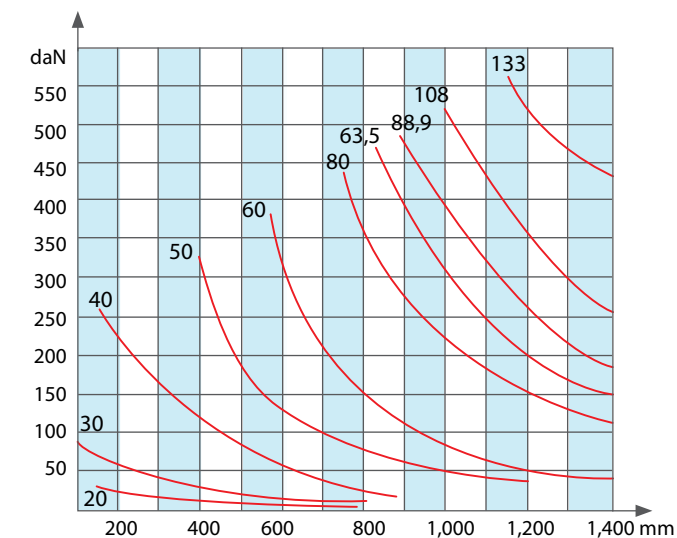


with loose support

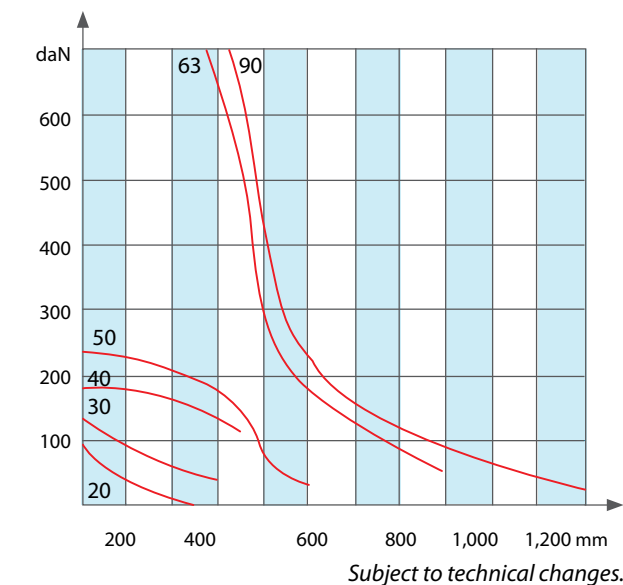


Static surface load of the tubes

steel tube



plastic tube



Subject to technical changes.

Coatings

STB // PU Baytec® / natural

- rotation casting method: 73° – 92° shore A
- temperature resistance: -20° C / +80° C
- good resistance to general weather conditions as well as oils and greases; high abrasion resistance

PUR-Vulkollan®

- glued and sanded
- coating thickness: 5 mm
- 65° shore A hardness
- temperature resistance: -25° C / +90° C
- very good resistance to general weather conditions, very good wear resistance/high abrasion resistance

STP // PVC cover tubing

- soft PVC, approx. 63° shore A
- RAL 7001, silver grey
- temperature resistance: -10° C / +60° C
- coating thickness: 2/3/5 mm, depending on tube diameter

PVC-shrink tubing

- PVC approx. 94° shore A
- RAL 7001, silver grey
- temperature resistance: -20° C / +85° C
- coating thickness: 1.5 mm for tube diameters: 50/60/80 mm

STG // rubber / black

- glued and sanded, 65° shore A
- coating thickness: 3 – 12 mm
- 65° shore A
- temperature resistance: -20° C / +90° C
- good resistance to normal weather conditions, resistance to oil and grease, good wear resistance

PUR-RIM/expanded PU, black

- casting compound: approx. 100° shore A
- temperature resistance: -20° C / +110° C
- good resistance to normal weather conditions as well as oils and greases
- high impact strength and abrasion resistance

PUR-RIM (polyurethane, trade name: Büfacast 83 – 51, Oldorim)

Type NBR 65° shore A, type NBR mini-diamond 8 – 12 mm, NBR (nitrile rubber, trade name: perbunan N)

Special natural rubber

- hardness: adjustable from approx. 50° to 95° shore A
- temperature resistance: -40° C / +290° C
- decomposition occurs at temperatures above 350° C
- excellent resistance to oils, fuels, lubricants, solvents and mineral acids
- natural rubber does not age or weather

STF // Seamless felt coatings for highly sensitive surfaces

- cut-resistant
- high wear-resistance
- temperature resistance: 80° C = 8 days, 120° C = 2 hours
- thickness: from 4 mm
- properties: absorbs liquids, squeezes off, is evenly distributed on surfaces, resists sticking of paste-like materials
- felt tubing can be ordered individually for retrofitting

Designations	Surface
ST	bright steel tube
STI	galvanized steel tube
STL	painted steel tube
STG	rubberized steel tube
STP	steel tube with PVC cover tubing
STF	steel tube with felt tubing

Designations	Surface
STB	steel tube with PU Baytec
KB	blue plastic tube
KGH	grey plastic tube
AL	aluminum tube
N	stainless steel tube

A width variety of **gravity-driven carrier rollers**

Our gravity-driven carrier rollers are conveyor components that provide the most efficient and gentle method for transporting various goods through passive-driven conveyor systems. These carrier rollers are manufactured according to your specifications to fit your application.

Versions

- various tube diameters, bearing types and axle end finishes
- bearing seals: RS for usage in wet areas or ZZ for dusty areas
- tubes available in plastic, bright steel, galvanized, stainless steel or aluminum
- wide selection of coatings

Properties

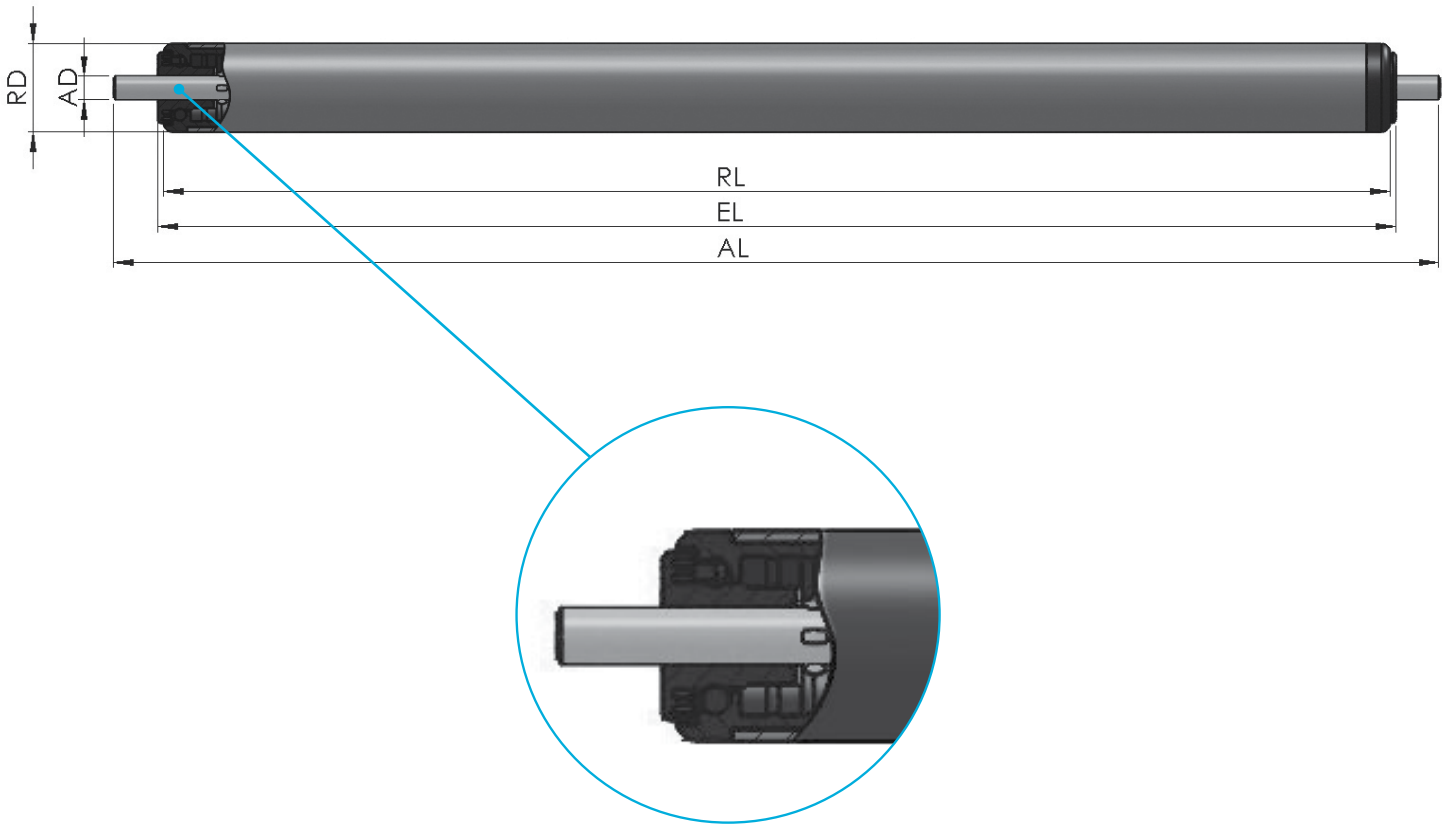
- for conveying lightweight to very heavy goods of all types and sizes
- load capacity: max. 500 kg/roller in the standard range
- long service life
- various axle-end variants provide for versatile and simple installation options

Areas of use

- automotive industry
- food industry
- logistics
- storage/warehouses
- furniture industry
- machine and plant engineering
- assembly lines
- conveyor belts
- indoor or outdoor; dry or wet applications
- and much more



*"We also offer custom solutions –
just ask for more details"*



KUT50/KUT50N

Areas of use:

- for conveying small, lightweight products on a non-gravity-driven roller conveyor for use in dry, dust-free environments (KUT50) or in damp, dust-free environments (KUT50N)

Bearing:

- KUT50 thermoplastic base with steel balls in a single row
- KUT50N thermoplastic base with stainless steel balls in a single row

Properties:

- light-running
- gentle on your product
- temperature range: -5 to +40° C
- speed: 0.3 m/s
- low weight
- quiet
- load capacity: max. 15 kg/roller
(Depending on the load limit of the tubes, bearings and axle; refer to the general information)

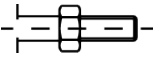
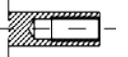
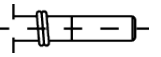

Optional:

- variety of coatings are available
- tube and axle made from stainless steel

Combination

tube-Ø	axle-Ø	ST	STI	STP	N	KB	KGH	ALU
16 x 1	5 / 6	x	x					
20 x 1.5	6 / 8	x	x		x	x	x	x
30 x 1	6 / 8 / 10	x	x	x	x			
30 x 1.5	6 / 8 / 10	x	x	x				
30 x 1.8	6 / 8 / 10					x	x	
40 x 1.5	6 / 8 / 10	x	x	x	x			
40 x 2.3	6 / 8 / 10					x	x	

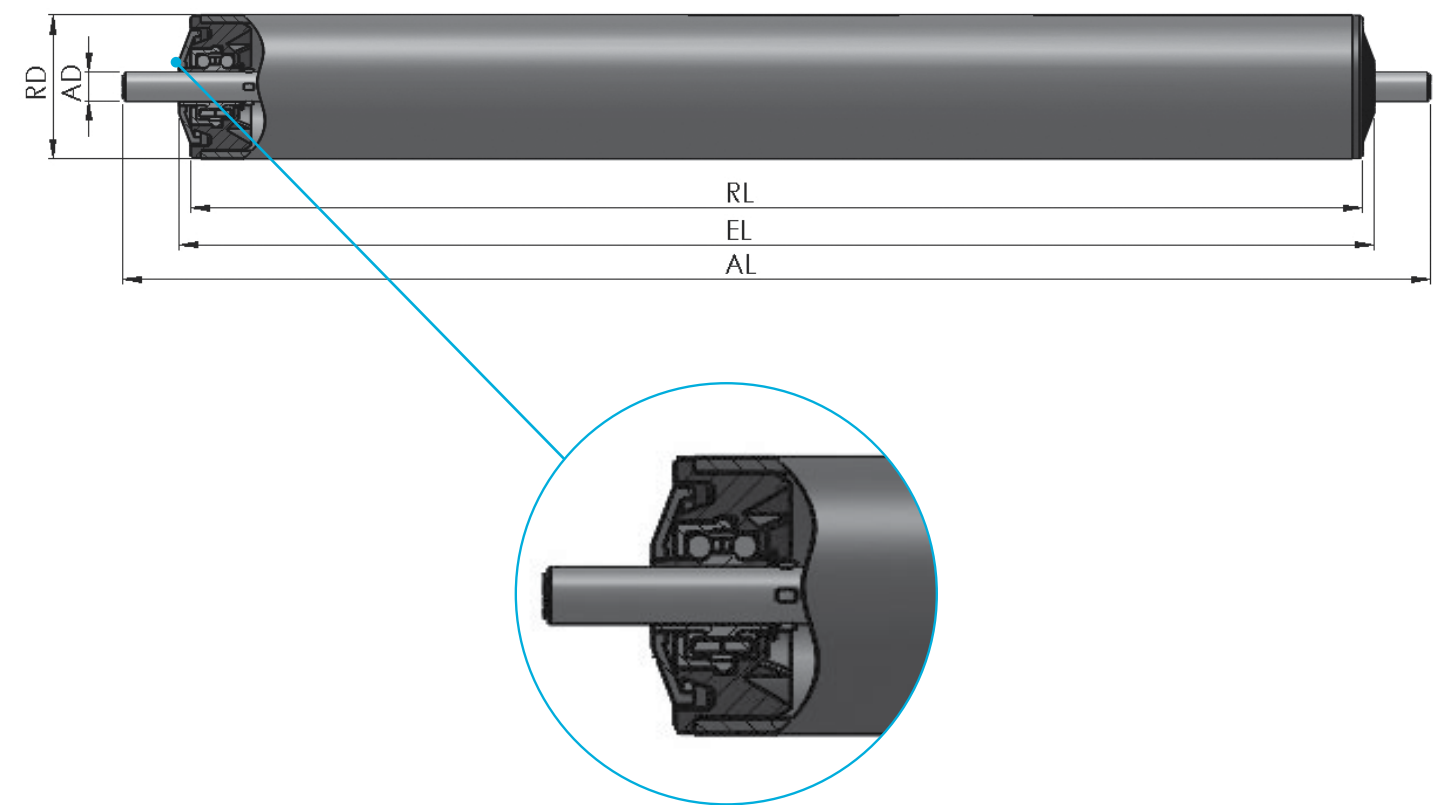
Axle type

tube-Ø mm	axle-Ø mm	el=	 external thread	 internal thread	 spring axle	 flat
16	5	RL +			3	3
16	6	RL +	13		3	3
20 / 30 / 40	6	RL +	15	5	5	5
20 / 30 / 40	8	RL +	18	5	5	5
30 / 40	10	RL +	15	5	5	5

 **“The axle length and installation length change depending on the type of axle end finishing”**

Order example

type	KUT50	20x1.5	STI	A8	FA	EL=250	AL= x
bearing type							
tube-Ø and wall thickness							
tube surface							
axle-Ø							
axle end finishing							
installation length							
axle length AL							



KUT100/KUT100N

- Areas of use:**

 - for conveying small, lightweight products on a non-gravity-driven roller conveyor. For use in dry, dust-free environments (KUT100) or in damp, dust-free environments (KUT100N)
- Bearing:**

 - KUT100 thermoplastic base with steel balls in a single row
 - KUT100N thermoplastic base with stainless steel balls in a single row
- Properties:**

 - light-running
 - gentle on your product
 - temperature range: -5 to +40° C
 - speed: 0.3 m/s
 - low weight
 - quiet
 - load capacity: max. 30kg/roller
(Depending on the load limit of the tubes, bearings and axle; refer to the general information)
- Optional:**

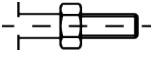

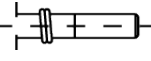
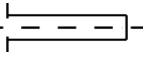
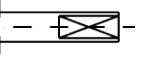
 - variety of coatings are available
 - tube and axle made from stainless steel

 **“Standard carrier rollers are available directly from stock – see page 112”**

Combination

tube-Ø	axle-Ø	ST	STI	STP	N	KB	KGH	ALU	STG
50 x 1.5	8 / 10 / 12	x	x	x	x			x	x
50 x 2	8 / 10 / 12	x	x	x	x				x
50 x 2.8	8 / 10 / 12					x	x		
60 x 2	8 / 10 / 12	x	x	x					
60.3 x 1.65	8 / 10 / 12				x				
63 x 3	8 / 10 / 12					x	x		

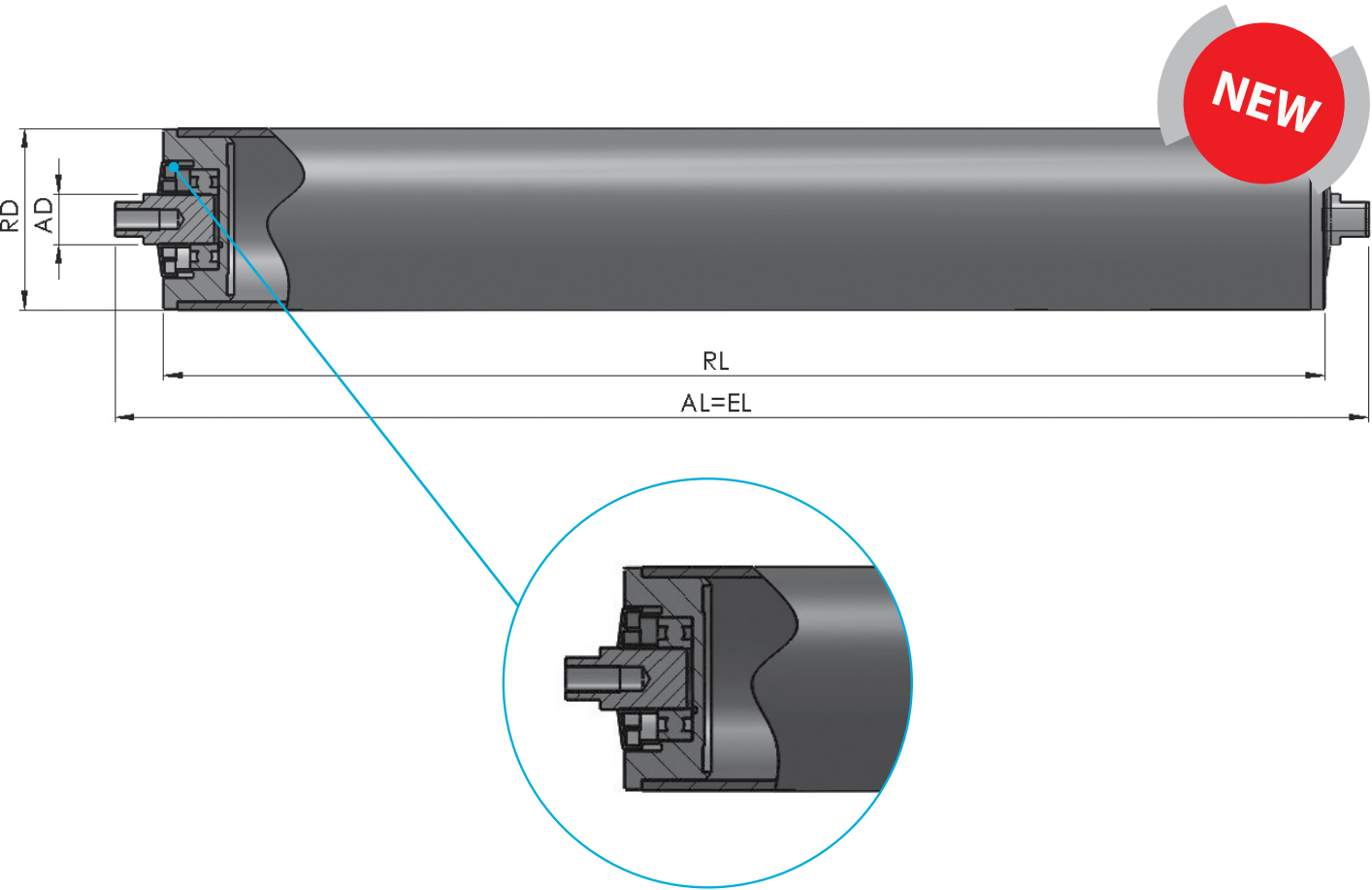
Axle type

axle-Ø mm	EL=	 external thread	 internal thread	 spring axle	 flat	 spanner flat
8	RL +	20	7	7	7	7
10	RL +	19	7	7	7	7
SK11	RL +			7		
12	RL +	21	7	7	7	7

 **“The axle length and installation length change depending on the type of axle end finishing”**

Order example

type	KUT100	50x2.8	KB	A12	IGM8	EL=300	AL= x
bearing type							
tube-Ø and wall thickness							
tube surface							
axle-Ø							
axle end finishing							
installation length							
axle length AL							



KUT270

Areas of use:

- for conveying lightweight to medium-weight products on a non-gravity-driven roller conveyor for use in dusty, dirty and wet environments
- also well suited for use in food industry applications

Bearing:

- bearing bases made of polypropylene (PPco) with labyrinth seal
- stainless steel cone bearing in a ball cage

Properties:

- quiet
- light-running
- gentle on your product
- axle hub made from POM, Ø 11.8 x20, with M8 interior threads and outer diameter with width across flat: 17x6mm
- load capacity: max. 50 kg/roller
(Depending on the load limit of the tubes, bearings and axle; refer to the general information)


Optional:

- variety of coatings are available
- stainless steel tubes

Combination

tube-Ø	axle-Ø	ST	STI	STP	N	KB	KGH	ALU	STG
50 x 1.5	POM-Adapter Ø11.8 IGM8	x	x	x	x			x	x
50 x 2	POM-Adapter Ø11.8 IGM8	x	x	x	x				x
50 x 2.8	POM-Adapter Ø11.8 IGM8					x	x		
60 x 2	POM-Adapter Ø11.8 IGM8	x	x	x					
63 x 3	POM-Adapter Ø11.8 IGM8					x	x		
63.5 x 2.9	POM-Adapter Ø11.8 IGM8	x	x						x
80 x 2	POM-Adapter Ø11.8 IGM8	x	x	x	x				
88.9 x 3.25	POM-Adapter Ø11.8 IGM8								
90 x 7	POM-Adapter Ø11.8 IGM8					x	x		

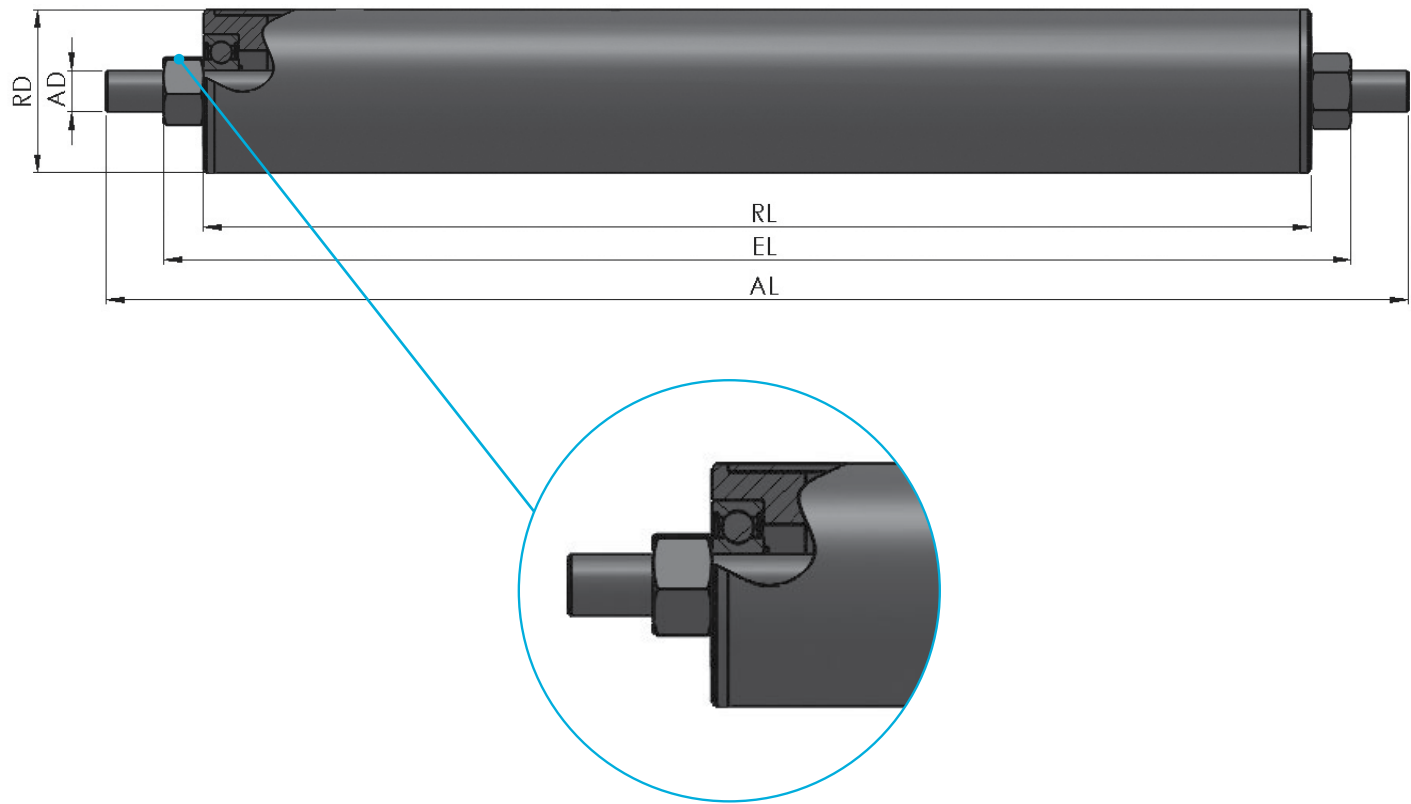
Axle type

axle-Ø mm	EL=	 internal thread
POM-Adapter Ø11.8 IGM8	RL +	21

 “The axle length and installation length change depending on the type of axle end finishing”

Order example

type	KUT270	50x1.5	N	EL=300
bearing type				
tube-Ø and wall thickness				
tube surface				
installation length				



TKL30/TKL30N

- Areas of use:**

 - for conveying medium-weight products on a gravity-driven roller conveyor or as a power-driven roller
 - for dry, dust-free environments (TKL30) or for damp, dust-free environments (TKL30N)

Bearing:

 - TKL30 thermoplastic base with precision deep-groove ball bearing
 - TKL30N thermoplastic base with stainless steel 2RS precision deep-groove ball bearing
- Properties:**

 - quiet
 - temperature range: -5 to +50° C
 - speed: max. 1.5 m/s
 - load capacity: max. 60 kg/roller
(Depending on the load limit of the tubes, bearings and axle; refer to the general information)

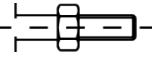
Optional:

 - variety of coatings are available
 - tube and axle made from stainless steel

Combination

tube-Ø	axle-Ø	ST	STI	STP	KB	KGH
30 x 1.5	8	x	x	x		
30 x 1.8	8				x	x

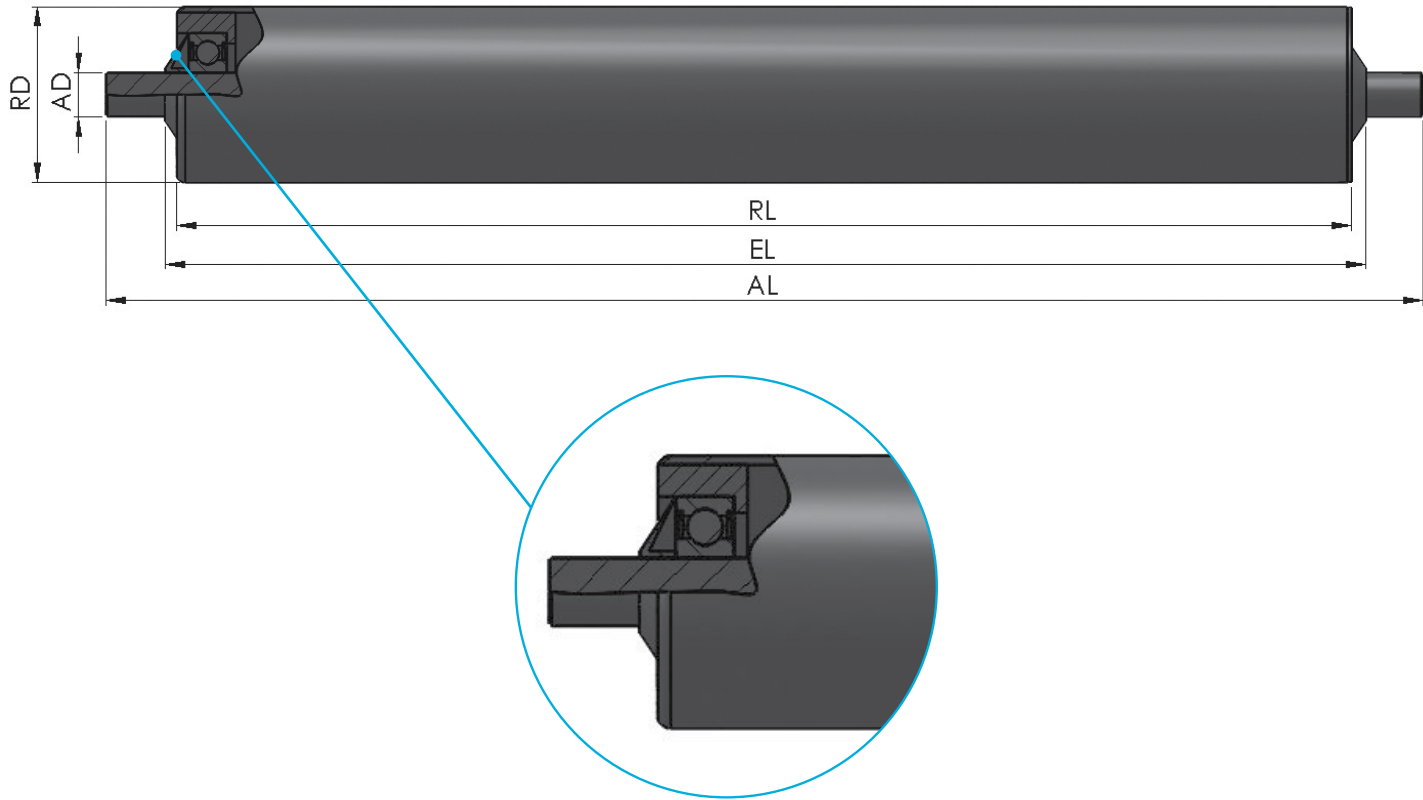
Axle type

axle-Ø mm	EL=	 external thread
8	RL +	14

 "The axle length and installation length change depending on the type of axle end finishing"

Order example

type	TKL30	30x1.5	STI	A8	M8x15	EL=300	AL= x
bearing type							
tube-Ø and wall thickness							
tube surface							
axle-Ø							
axle end finishing							
installation length							
axle length AL							



TKL40/TKL40N

- Areas of use:**

 - for conveying medium-weight products on a gravity-driven roller conveyor or as a power-driven roller
 - for dry, dust-free environments (TKL40) or for damp, dust-free environments (TKL40N)

Bearing:

 - TKL40 thermoplastic base with precision deep-groove ball bearing
 - TKL40N thermoplastic base with stainless steel 2RS precision deep-groove ball bearing
- Properties:**

 - quiet
 - temperature range: -5 to +50° C
 - speed: 1.5 m/s
 - load capacity: max. 60 kg/roller
(Depending on the load limit of the tubes, bearings and axle; refer to the general information)

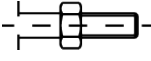

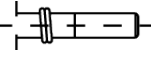
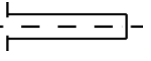
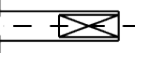
Optional:

 - variety of coatings are available
 - tube and axle made from stainless steel

Combination

tube-Ø	axle-Ø	ST	STI	STP
40 x 1.5	8 / 10 / 12 / 14 / 15	x	x	x

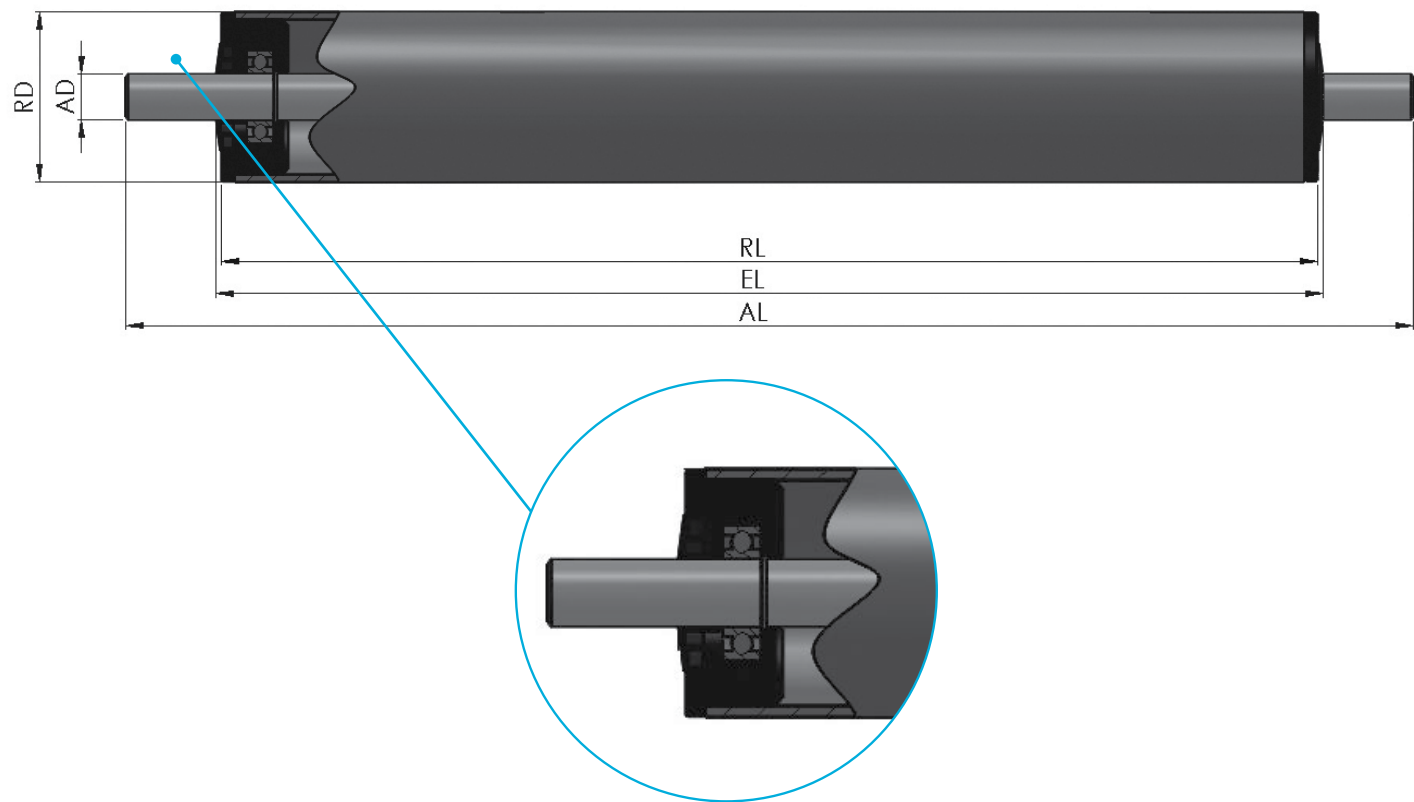
Axle type

axle-Ø mm	EL=	 external thread	 internal thread	 spring axle	 flat	 spanner flat
8	RL +	26	13	13	13	13
10	RL +	25	13	13	13	13
12	RL +	27	13	13	13	13
14	RL +	29	13	13	13	13
15	RL +		13	13	13	13

 “The axle length and installation length change depending on the type of axle end finishing”

Order example

type	TKL40	40x1.5	STI	A12	IGM8	EL=300	AL= x
bearing type							
tube-Ø and wall thickness							
tube surface							
axle-Ø							
axle end finishing							
installation length							
axle length AL							



TKL/TKLN

- Areas of use:**
- for conveying medium-weight products on a gravity-driven roller conveyor or as a power-driven roller
 - for dusty, dirty and dry environments

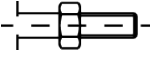

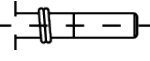
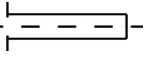
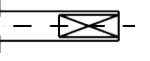
- Bearing:**
- TKL thermoplastic base with labyrinth seal and with precision deep-groove ball bearing
 - TKLN thermoplastic base with labyrinth seal and with stainless steel 2RS precision deep-groove ball bearing

- Properties:**
- quiet
 - gentle on your product
 - temperature range: -5 to +50° C
 - speed: 1.5 m/s
 - load capacity: max. 240 kg/roller
(Depending on the load limit of the tubes, bearings and axle; refer to the general information)
- Optional:**
- variety of coatings are available
 - bearing ball, tube, stainless steel axle
 - with welded-on flanges

Combination

tube-Ø	axle-Ø	ST	STI	STP	N	KB	KGH	ALU	STG
50 x 1.5	10 / SK11 / 12 / 14 / 15 / 17	x	x	x	x			x	x
50 x 2	10 / SK11 / 12 / 14 / 15 / 17	x	x	x	x				x
50 x 2.8	10 / SK11 / 12 / 14 / 15 / 17					x	x		
50 x 3	10 / SK11 / 12 / 14 / 15 / 17	x	x	x					x
60 x 2	10 / SK11 / 12 / 14 / 15 / 17	x	x	x					x
60.3 x 1.65	10 / SK11 / 12 / 14 / 15 / 17				x				x
63 x 3	10 / SK11 / 12 / 14 / 15 / 17					x	x		
63.5 x 2.9	10 / SK11 / 12 / 14 / 15 / 17	x	x						x
80 x 2	10 / SK11 / 12 / 14 / 15 / 17	x	x	x	x				x
90 x 7	10 / SK11 / 12 / 14 / 15 / 17					x	x		
88.9 x 2.9	10 / SK11 / 12 / 14 / 15 / 17	x	x	x	x				x

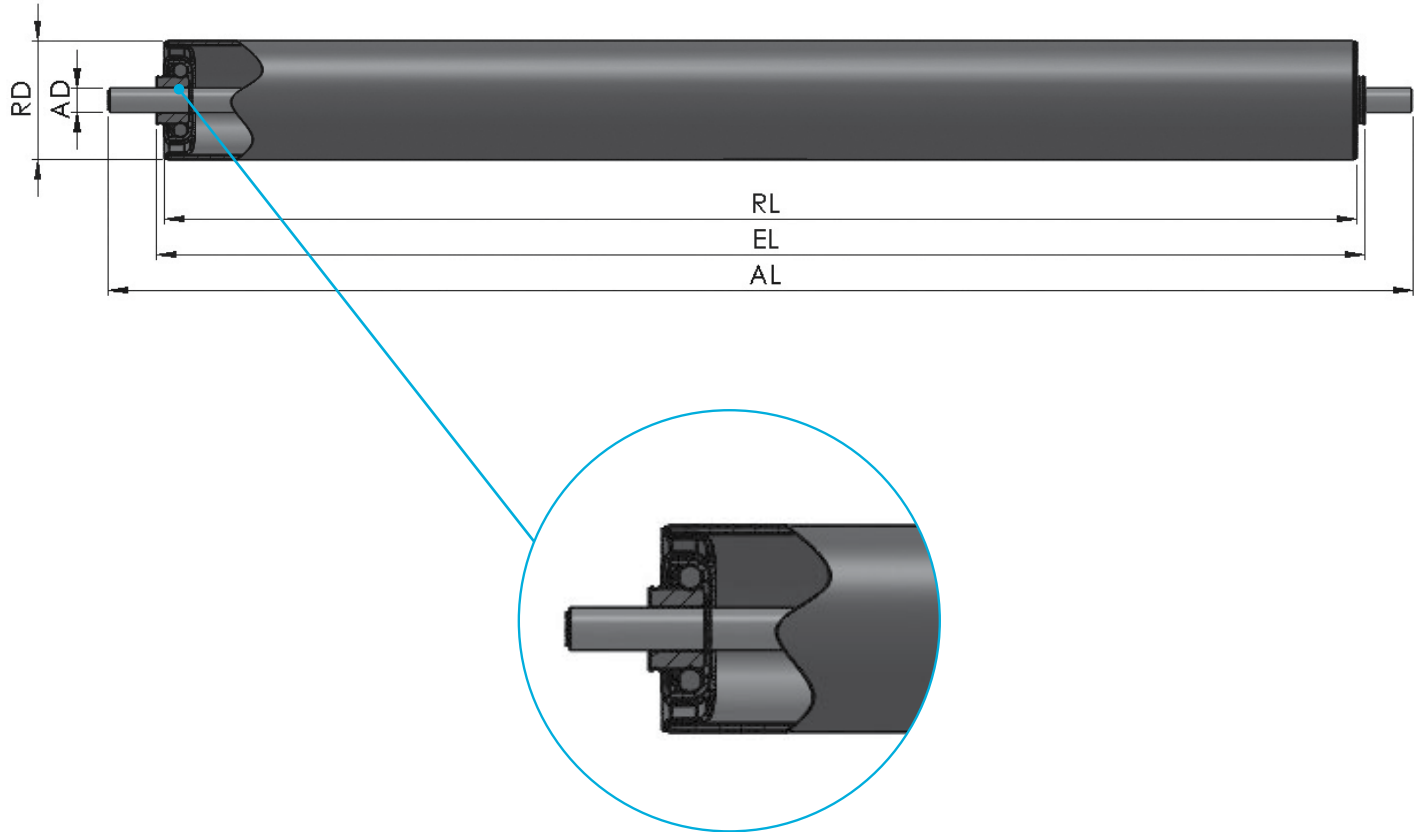
Axle type

axle-Ø mm	EL=	 external thread	 internal thread	 spring axle	 flat	 spanner flat
10	RL +	19	7	7	7	7
SK11	RL +			7	7	7
12	RL +	21	7	7	7	7
14	RL +	23	7	7	7	7
15	RL +		7	7	7	7
17	RL +	23	7	7	7	7

 “The axle length and installation length change depending on the type of axle end finishing”

Order example

type	TKL	60x2	STI	A12	IGM8	EL=300	AL= x
bearing type							
tube-Ø and wall thickness							
tube surface							
axle-Ø							
axle end finishing							
installation length							
axle length AL							



TRG

- Areas of use:**
- for conveying lightweight to medium-weight products on a non-gravity-driven roller conveyor
 - dust-free and dry environment
 - for use in enclosed rooms

- Bearing:**
- galvanized steel sheet base with tapered steel ball bearing

- Properties:**
- light-running
 - temperature range: -5 to +80° C
 - speed: 0.6 m/s
 - load capacity: max. 160 kg/roller
(Depending on the load limit of the tubes, bearings and axle; refer to the general information)

- Optional:**
- variety of coatings are available
 - tube and axle made from stainless steel
 - antistatic
 - with flanges



“Standard carrier rollers are available directly from stock – see page 113”

Combination

tube-Ø	axle-Ø	ST	STI	STP	N
30 x 1.5	8 / 10	x	x	x	
40 x 1.5	8 / 10 / SK11 / 12	x	x	x	x
50 x 1.5	8 / 10 / SK11 / 12	x	x	x	x
50 x 2	8 / 10 / SK11 / 12	x	x	x	x
60 x 2	8 / 10 / SK11 / 12	x	x	x	x
80 x 2	8 / 10 / SK11 / 12	x	x	x	x

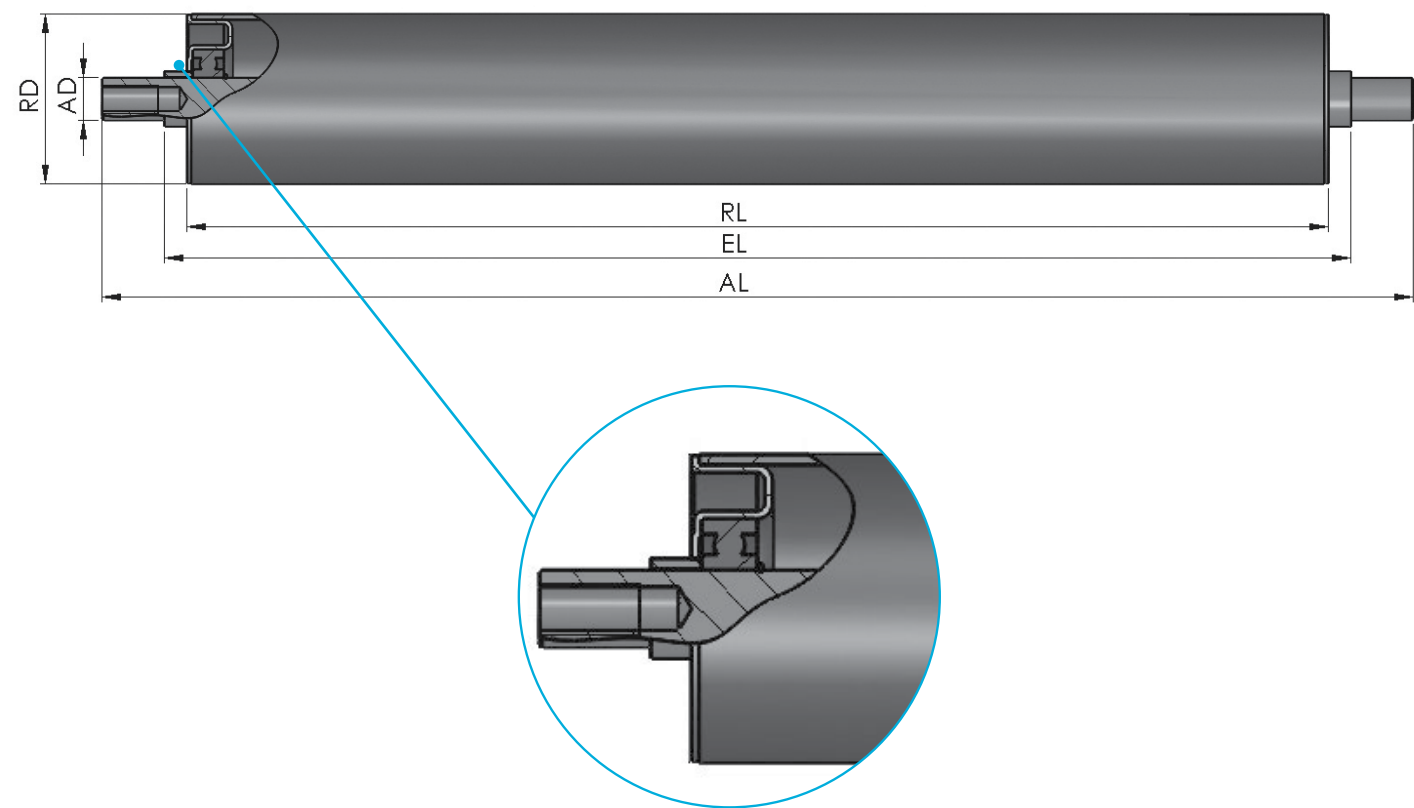
Axle type

tube-Ø mm	axle-Ø mm	EL=	external thread	internal thread	spring axle	flat	spanner flat
30 / 40 / 50 / 60	8	RL +	19	6	6	6	6
30 / 40 / 50 / 60	10	RL +	18	6	6	6	6
40 / 50 / 60	SK11	RL +			6		
40 / 50 / 60	12	RL +	20	6	6	6	6
80 x 2	10	RL +	20	6	6	6	6
80 x 2	SK11	RL +			10		
80 x 2	12	RL +	22	10	10	10	10

“The axle length and installation length change depending on the type of axle end finishing”

Order example

type	TRG	50x1.5	STI	A10	M10x15	EL=300	AL= x
bearing type							
tube-Ø and wall thickness							
tube surface							
axle-Ø							
axle end finishing							
installation length							
axle length AL							



TRK

Areas of use:

- for conveying medium-weight to heavy products on a gravity-driven roller conveyor or as a power-driven roller
- for dust-free and dry environments

Bearing:

- galvanized steel sheet base with precision deep-groove ball bearing

Properties:

- temperature range: -5 to +60° C
- speed: max. 1.2 m/s
- load capacity: max. 240 kg/roller
(Depending on the load limit of the tubes, bearings and axle; refer to the general information)



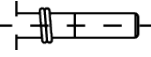
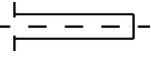
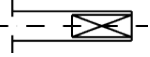
Optional:

- variety of coatings are available
- RS/ZZ bearing for dusty environments
- tube and axle made from stainless steel
- antistatic
- with flanges
- for heated and cold storage applications

Combination

tube-Ø	axle-Ø	ST	STI	STP	N
50 x 1.5	10 / SK11 / 12 / 14 / 15 / 17	x	x	x	x
50 x 2	10 / SK11 / 12 / 14 / 15 / 17	x	x	x	x
60 x 2	10 / SK11 / 12 / 14 / 15 / 17	x	x	x	
80 x 2	10 / SK11 / 12 / 14 / 15 / 17	x	x	x	x

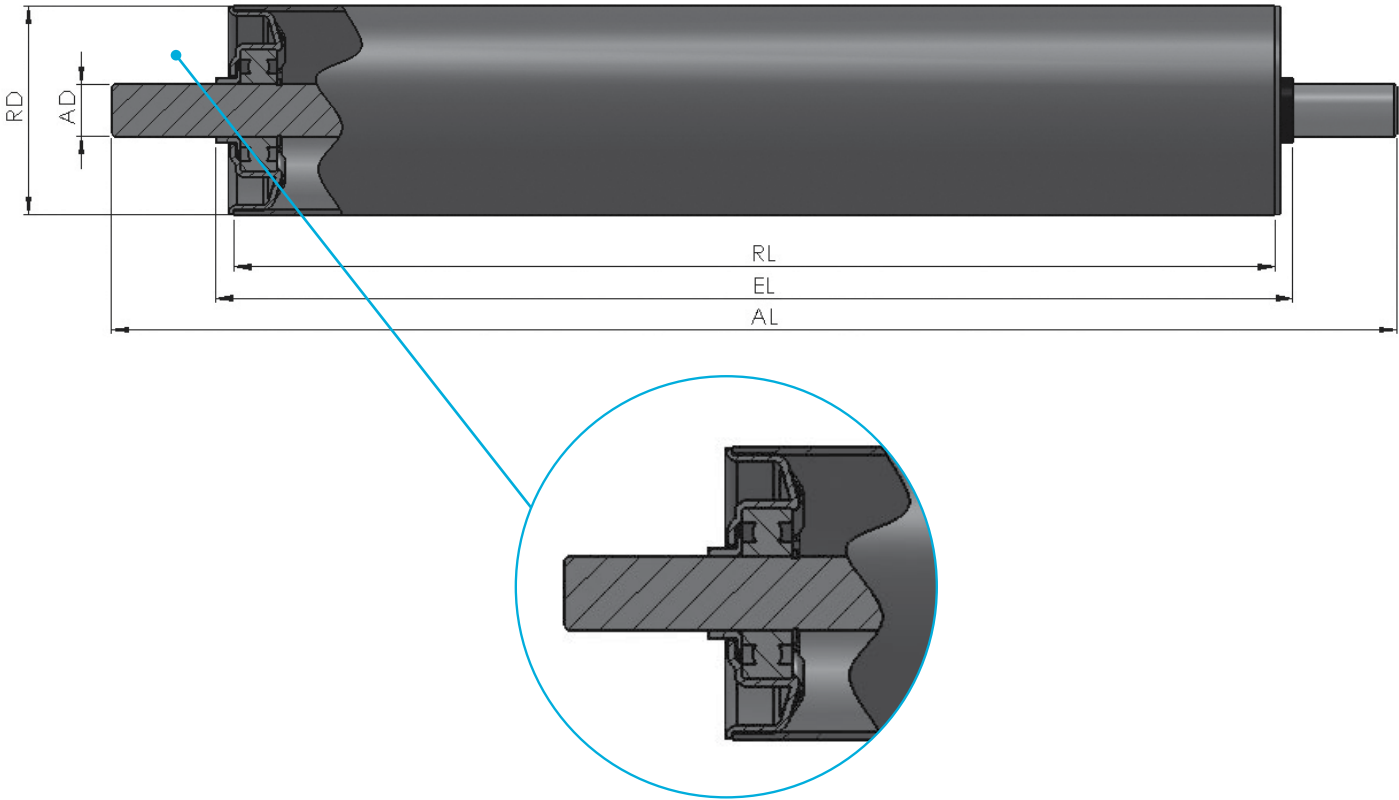
Axle type

axle-Ø mm	EL=	 external thread	 internal thread	 spring axle	 flat	 spanner flat
10	RL +	22	10	10	10	10
SK11	RL +			10		
12	RL +	24	10	10	10	10
14	RL +	26	10	10	10	10
15	RL +		10	10	10	10
17	RL +	26	10	10	10	10

 "The axle length and installation length change depending on the type of axle end finishing"

Order example

type	TRK	80x2	STI	A14	IGM8	EL=495	AL= x
bearing type							
tube-Ø and wall thickness							
tube surface							
axle-Ø							
axle end finishing							
installation length							
axle length AL							



TRKS

- Areas of use:**
- for conveying very heavy products on a gravity-driven roller conveyor or as a power-driven roller
 - for dust-free and dry environments

- Bearing:**
- galvanized steel sheet base with precision deep-groove ball bearing


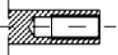
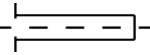
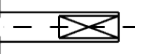
- Properties:**
- temperature range: -5 to +80° C
 - speed: 1.2 m/s
 - load capacity: max. 400 kg/roller
(Depending on the load limit of the tubes, bearings and axle; refer to the general information)

- Optional:**
- variety of coatings are available
 - RS/ZZ bearing for dusty environments
 - tube and axle made from stainless steel
 - antistatic
 - for heated and cold storage applications
 - with flanges

Combination

tube-Ø	axle-Ø	ST	STI	STP	N
63.5 x 2.9	20	x	x		
80 x 2	17 / 20 / 25	x	x	x	x
88.9 x 2.9	17 / 20 / 25	x	x	x	x
108 x 3.6	17 / 20 / 25	x	x		

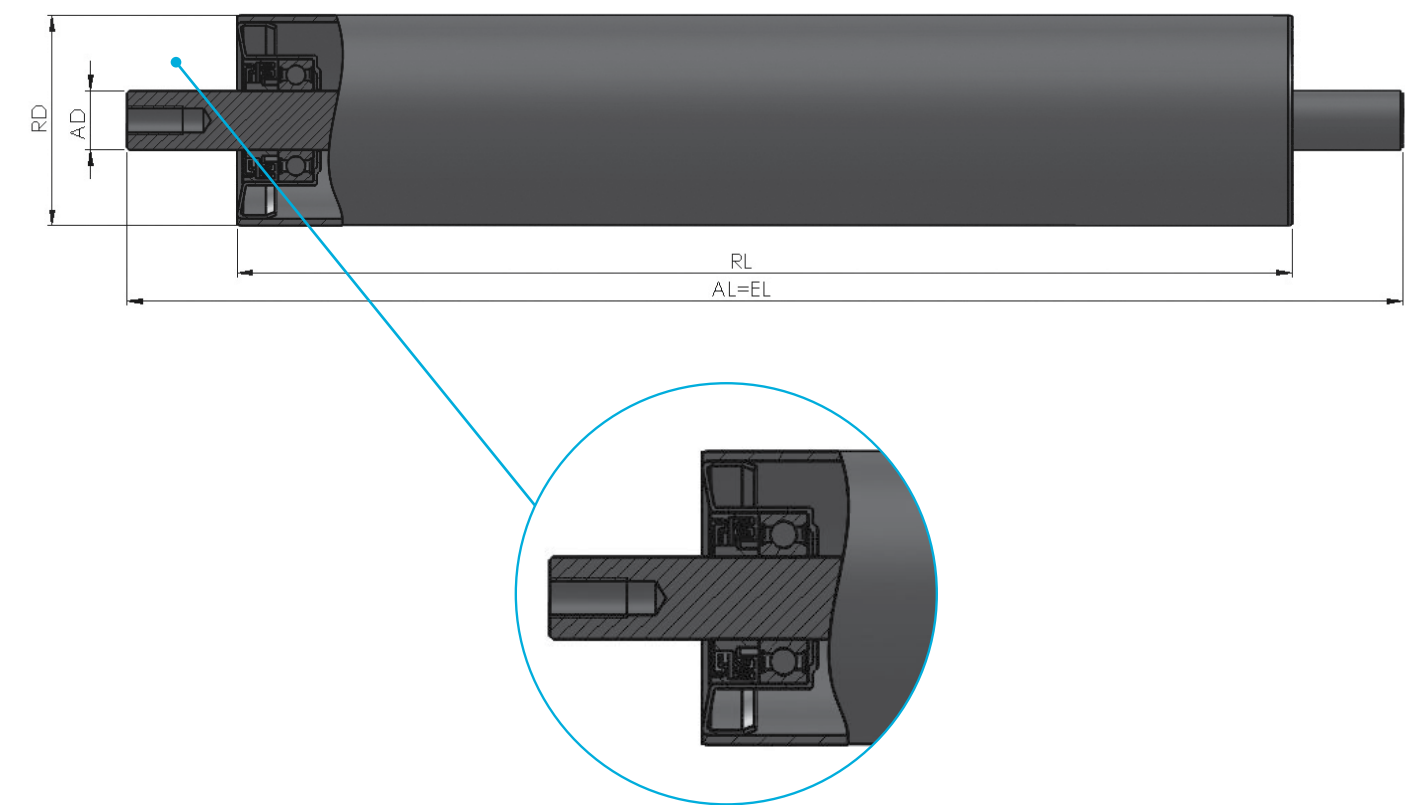
Axle type

axle-Ø mm	EL=	 external thread	 internal thread	 flat	 spanner flat
17	RL +	26	10	10	10
20	RL +	28	10	10	10
25	RL +	30	10	10	10

 "The axle length and installation length change depending on the type of axle end finishing"

Order example

type	TRKS	80x2	STI	A14	IGM8	EL=495	AL= x
bearing type							
tube-Ø and wall thickness							
tube surface							
axle-Ø							
axle end finishing							
installation length							
axle length AL							



TGF

- Areas of use:**
- for conveying very heavy products on a gravity-driven roller conveyor or as a power-driven roller
 - for dusty, dirty and dry environments

- Bearing:**
- deep-drawn steel sheet base, welded to the tube, with precision ball bearing
 - multiple-labyrinth seal: high-quality lithium grease is used to provide permanent lubrication
 - additional protection provided by rain cap

- Properties:**
- very sturdy design and high-quality bearing protection
 - temperature range: -5 to +80° C
 - load capacity: max. 500 kg/roller
(Depending on the load limit of the tubes, bearings and axle; refer to the general information)

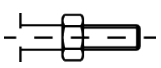

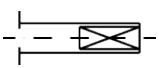
- Optional:**
- variety of coatings are available
 - bearing, bearing retainer, tube and axle made from stainless steel
 - for heated and cold storage applications
 - with welded-on flanges
 - with support rings and buffer rings

 **“Standard carrier rollers are available directly from stock – see page 114”**

Combination

tube-Ø	axle-Ø	ST	STI	STP	STL
51 x 2.9	20	x	x		x
63.5 x 2.9	20	x	x		x
80 x 2	20	x	x	x	x
88.9 x 2.9	20 / 25 / 30	x	x	x	x
108 x 3.6	20 / 25 / 30	x	x		x
133 x 3.6	20 / 25 / 30	x	x		x
159 x 4.5	20 / 25 / 30	x	x		x

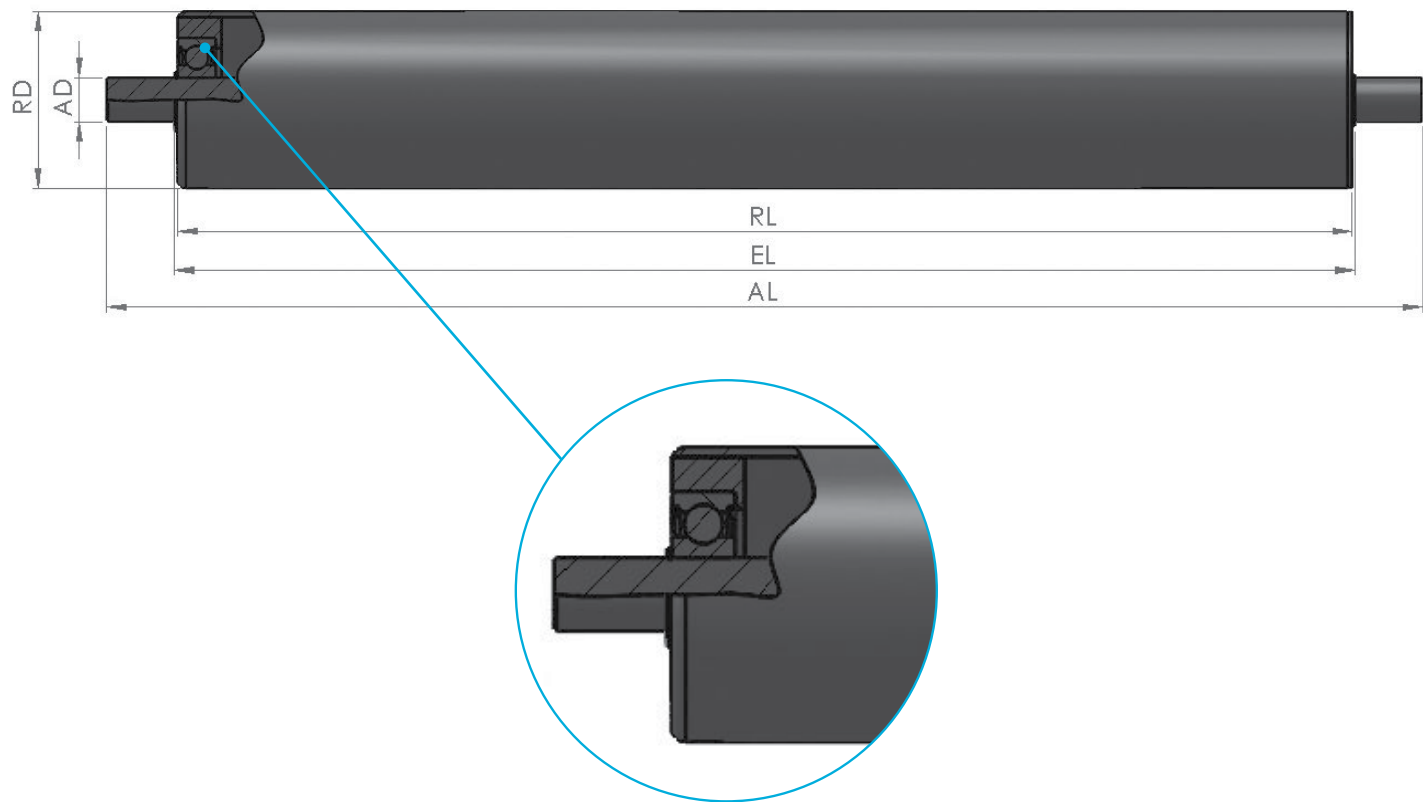
Axle type

axle-Ø mm	EL=	 external thread	 internal thread	 spanner flat
20	RL +	24	6	6
25	RL +	24	6	6
30	RL +	24	6	6

 **“The axle length and installation length change depending on the type of axle end finishing”**

Order example

type	TGF	88.9x2.9	STI	A20	IGM12	EL=850	AL= x
bearing type							
tube-Ø and wall thickness							
tube surface							
axle-Ø							
axle end finishing							
installation length							
axle length AL							



TGFS

- Areas of use:**
- for conveying very heavy products on a gravity-driven roller conveyor or as a power-driven roller
 - for dust-free and dry environments

- Bearing:**
- with screwed-in bearing seat directly in the tube, welded, with precision deep-groove ball bearing

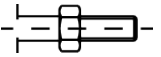
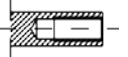
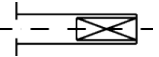
- Properties:**
- sturdy bearing insert and robust overall construction
 - larger tube wall thickness and axle diameter
 - high load capacity, depending on the particular type (Depending on the load limit of the tubes, bearings and axle; refer to the general information)

- Optional:**
- variety of coatings are available
 - bearing ball, tube, and axle in stainless steel
 - RS/ZZ bearing for dusty environments
 - self-aligning bearing
 - for heated and cold storage applications
 - with flanges

Combination

tube-Ø	axle-Ø	ST	STI	STP	N
63.5 x 2.9	20 / 25	x	x		
80 x 2	20 / 25	x	x	x	x
80 x 3	20 / 25	x	x	x	
88.9 x 2.9	20 / 25	x	x	x	x
108 x 3.6	20 / 25	x	x		
133 x 3.6	20 / 25	x	x		
159 x 4.5	20 / 25	x	x		

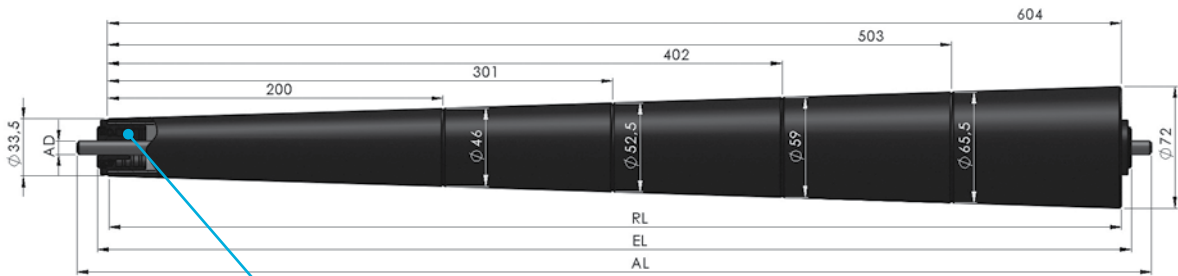
Axle type

axle-Ø mm	EL=	 external thread	 internal thread	 spanner flat
20	RL +	26	6	6
25	RL +	26	6	6

 “The axle length and installation length change depending on the type of axle end finishing”

Order example

type	TGFS	108 x 3.6	STI	A25	M24 x 35	EL =1250	AL= x
bearing type							
tube-Ø and wall thickness							
tube surface							
axle-Ø							
axle end finishing							
installation length							
axle length AL							



KFR30

Areas of use:
for constructing bends in gravity-driven carrier rollers. Used for conveying lightweight goods in a dry, dust-free environment

Bearing:
thermoplastic base with steel balls in a single row

- Properties:**
- tapered plastic furring strips, abrasion resistant,
 - inside radius: 500 mm
 - light-running
 - low weight
 - quiet
 - temperature range: -5 to +40° C
 - speed: 0.5 m/s
 - load capacity: max. 20 kg/roller
(Depending on the load limit of the tubes, bearings and axle; refer to the general information)

- Optional:**
- tapered tube made of steel or galvanized steel
 - bearing balls, tapered tube, stainless steel axle
 - special length

Combination

TKL30	KUT50	tube-Ø	axle-Ø	ST	STI	N	KB	KGH
	x	30 x 1	8 / 10	x	x	x		
x	x	30 x 1.5	8 / 10	x	x			
x	x	30 x 1.8	8 / 10				x	x

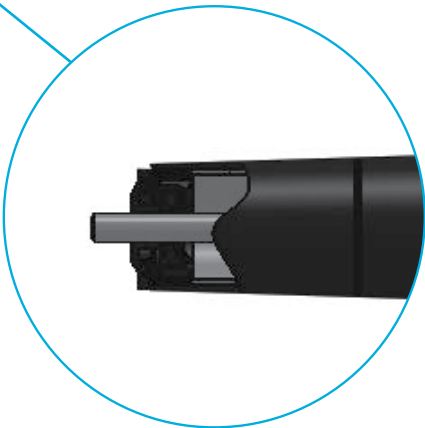
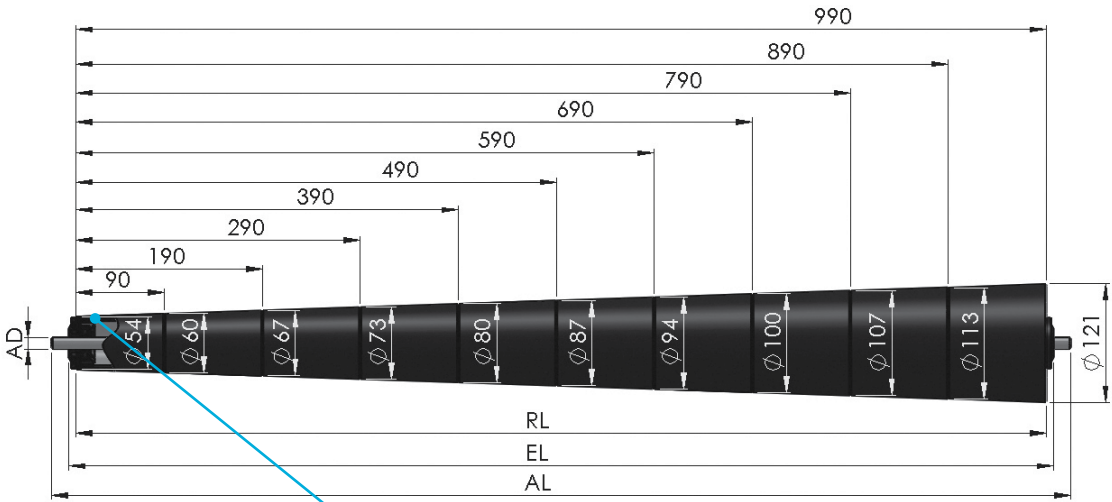
Axle type

bearing	axle-Ø mm	EL=	external thread	spring axle
TKL30	8	RL +	21	
	10	RL +	18	
KUT50	8	RL +	35	22
	10	RL +	32	22

 “The axle length and installation length change depending on the type of axle end finishing”

Order example

type	KFR30	KUT50	30x1.8	KB	A10	M10x15	EL=437	AL= x
rollers type								
bearing type								
tube-Ø and wall thickness								
tube surface								
axle-Ø								
axle end finishing								
installation length								
axle length AL								



KFR50

Areas of use:

- for constructing bends in gravity-driven carrier rollers. Used for conveying lightweight goods in a dry, dust-free environment

Bearing:

- bearing base made of thermoplastic with labyrinth seal and deep-groove ball bearing

Properties:

- plastic furring strips, abrasion resistant, on inner tube Ø 50 mm
- inside radius: 800 mm
- quiet
- temperature range: -5 to +50° C
- speed: 0.5 m/s
- load capacity: max. 80 kg/roller
(Depending on the load limit of the tubes, bearings and axle; refer to the general information)

Optional:

- tapered tube made of steel or galvanized steel
- cone made from hard plastic
- special tapered shapes
- bearing ball, tapered tube, stainless steel axle
- antistatic

Combination

TKL	KUT100	tube-Ø	axle-Ø	ST	STI	N	KB	KGH	ALU
x	x	50 x 1.5	10 / SK11 / 12 / 14	x	x	x			x
x	x	50 x 2	10 / SK11 / 12 / 14	x	x	x			
x	x	50 x 2.8	10 / SK11 / 12 / 14				x	x	
x		50 x 3	10 / SK11 / 12 / 14	x	x				

Axle type

bearing	axle-Ø mm	EL=	external thread	internal thread	spring axle	flat	spanner flat
TKL	10	RL +	27	17	17	17	17
	12	RL +	29	17	17	17	17
	SK11	RL +		17	17	17	17
	14	RL +	31	17	17	17	17
KUT100	10	RL +	27	17	17	17	17
	12	RL +	29	17	17	17	17

 "The axle length and installation length change depending on the type of axle end finishing"

Order example

type	KFR50	TKL	50x1,5	STI	A12	IGM8	EL=517	AL= x
rollers type								
bearing type								
tube-Ø and wall thickness								
tube surface								
axle-Ø								
axle end finishing								
installation length								
axle length AL								

The versatility of **power-driven carrier rollers**

Our power-driven carrier rollers are available, depending on the drive components, with accumulating/friction rollers or with fixed-drive rollers. Chains, toothed belts or round belts are used to provide the drive.

Drive components welded to the tube are used for the fixed-drive rollers and for time-cycled facilities. This ensures that a width variety of goods can be best conveyed through a power-driven conveyor system. For lightweight goods and for continuously-driven systems, rollers with pressed-in drive components are used. These carrier rollers are manufactured according to your specifications to fit your application.

Versions

- various tube diameters, bearing types and axle end finishes
- bearing seals: RS for usage in wet areas or ZZ for dusty areas
- tubes available in plastic, bright steel, galvanized or stainless steel
- wide selection of coatings

Drive types

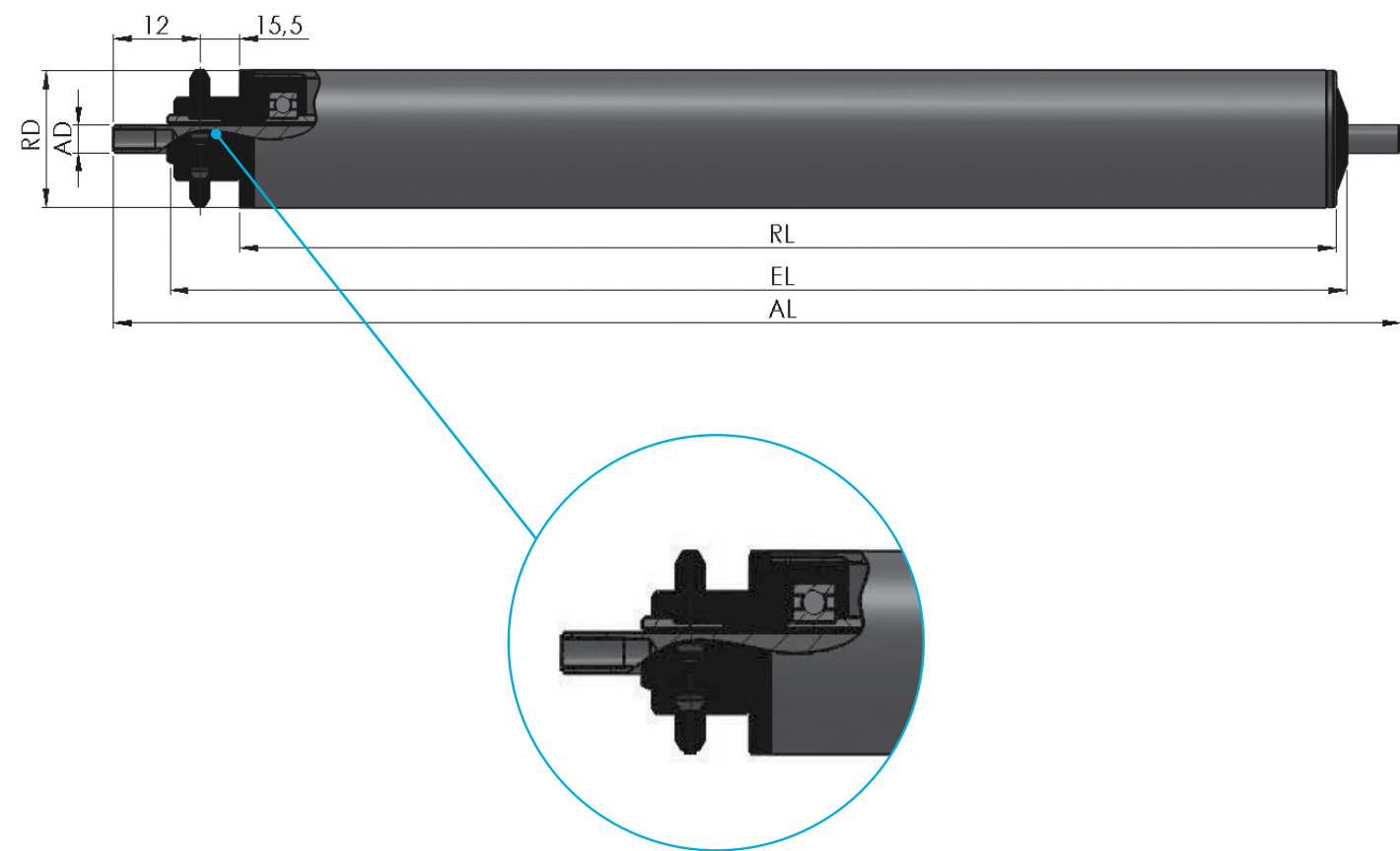
- single or double sprockets
- fixed or accumulating drive
- adjustable friction
- driven by round belts, with 1 or 2 grooves
- toothed belt drive

Areas of use

- automotive industry
- food industry
- logistics
- furniture industry
- machine and plant engineering
- assembly lines
- conveyor belts
- indoor or outdoor; dry or wet applications
- and much more



***"We also offer custom solutions –
just ask for more details"***



1K-KU-1/2-Z11-fixed/accumulating

Areas of use:

- for transporting lightweight products on a power-driven roller conveyor
- for dry and dust-free interiors

counter-bearing:

- the type of bearing depends on the application select between TKL and TRK

Drive:

- single sprocket made of plastic, lantern gear sprocket teeth
- sprocket size: 1/2" x 5/16", with 11 teeth
- available as fix: (fixed drive) or accu: (accumulating drive)

Properties:

- minimal running noises
- low weight
- temperature range: -5 to +50° C
- speed: max. 0.5 m/s
- load capacity: max. 40 kg/roller
(Depending on the load limit of tube, bearing and axle;
refer to the general information)

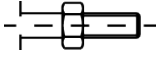
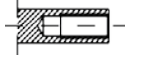
Optional:

- available with various coatings
- stainless steel bearing, tube and axle

Combination

counter-bearing		tkl	trk	tube-Ø	axle-Ø	ST	STI	STP	N	KB	KGH	ALU	STG
x	x			50 x 1.5	10 / 12 / 14	x	x	x	x			x	x
x	x			50 x 2	10 / 12 / 14	x	x	x	x				x
x				50 x 2.8	10 / 12 / 14					x	x		
x	x			60 x 2	10 / 12 / 14	x	x	x					x
x				60.3 x 1.65	10 / 12 / 14				x				x
x				63 x 3	10 / 12 / 14					x	x		
x	x			80 x 2	10 / 12 / 14	x	x	x	x				x
x				90 x 7	10 / 12 / 14					x	x		

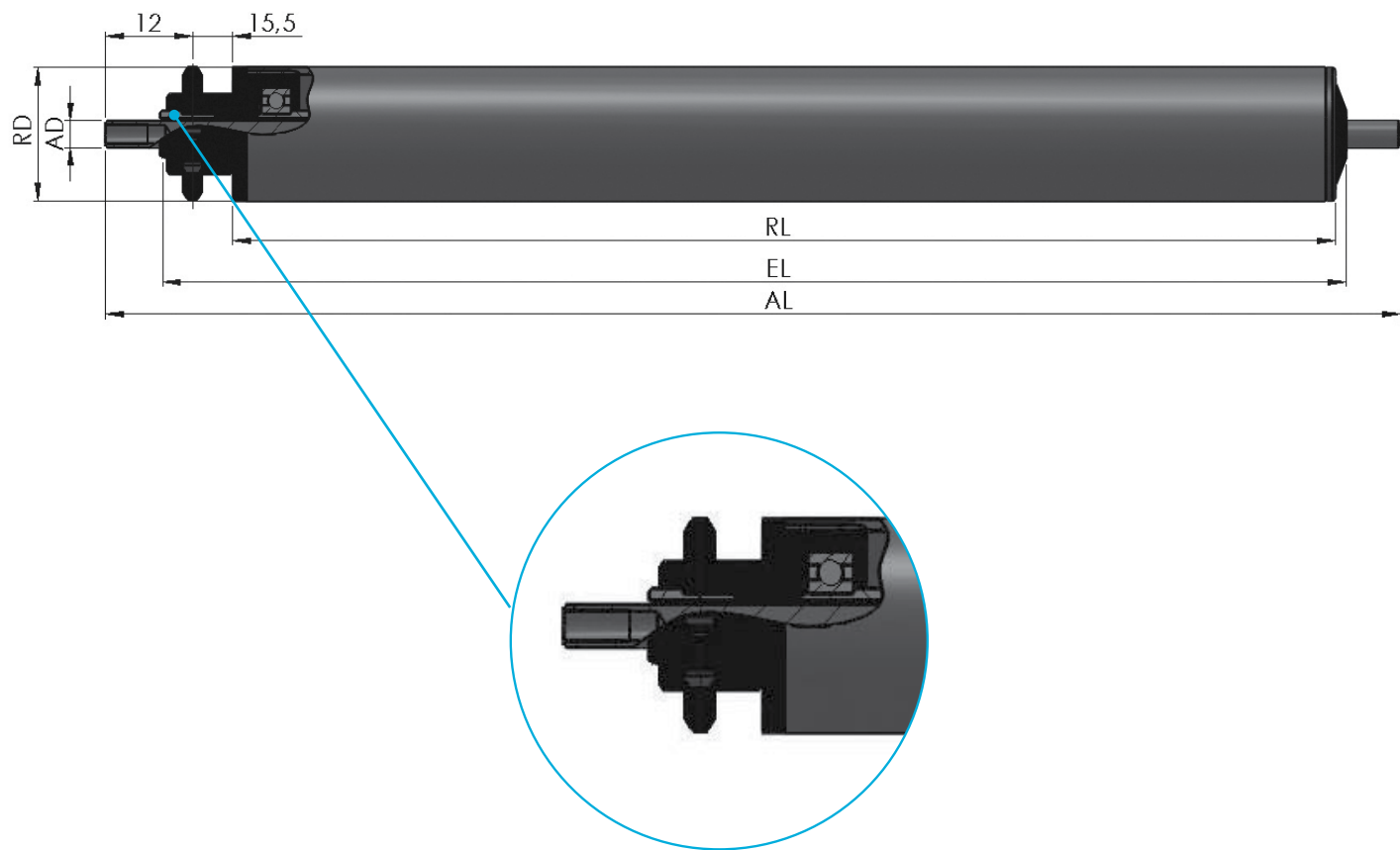
Axle type

counter-bearing	axle-Ø mm	EL=	 external thread	 internal thread
TKL	10	RL +	45	33
	12	RL +	47	33
	14	RL +	49	33
TRK	10	RL +	47	35
	12	RL +	49	35
	14	RL +	51	35

 "The axle length and installation length change depending on the type of axle end finishing"

Order example

type	1K-KU-1/2-Z11-fixed	TKL	50x2	STI	A12	IGM8	EL=553	AL= x
rollers type								
type counter-bearing								
tube-Ø and wall thickness								
tube surface								
axle-Ø								
axle end finishing								
installation length								
axle length AL								



1K-ST-1/2-Z11-fixed/accumulating

Areas of use:

- for conveying lightweight to medium-weight products on a power-driven roller conveyor
- for dry and dust-free interiors

counter-bearing:

the type of bearing depends on the application:
Select between TKL and TRK

Drive:

- single sprocket made of steel, lantern gear sprocket teeth
sprocket size: 1/2" x 5/16", with 11 teeth
- available as fix: (fixed drive) or accu: (accumulating drive)

Properties:

- minimal running noises
- low weight
- temperature range: -5 to +50° C
- speed: max. 0.5 m/s
- load capacity: max. 40 kg/roller
(Depending on the load limit of tube, bearing and axle;
refer to the general information)

Optional:

- available with various coatings
- stainless steel bearing, tube and axle

Combination

counter-bearing		tube-Ø	axle-Ø	ST	STI	STP	N	KB	KGH	ALU	STG
TKL	TRK										
x	x	50 x 1.5	10 / 12 / 14	x	x	x	x			x	x
x	x	50 x 2	10 / 12 / 14	x	x	x	x				x
x		50 x 2.8	10 / 12 / 14					x	x		
x	x	60 x 2	10 / 12 / 14	x	x	x					x
x		60.3 x 1.65	10 / 12 / 14				x				x
x		63 x 3	10 / 12 / 14					x	x		
x	x	80 x 2	10 / 12 / 14	x	x	x	x				x
x		90 x 7	10 / 12 / 14					x	x		

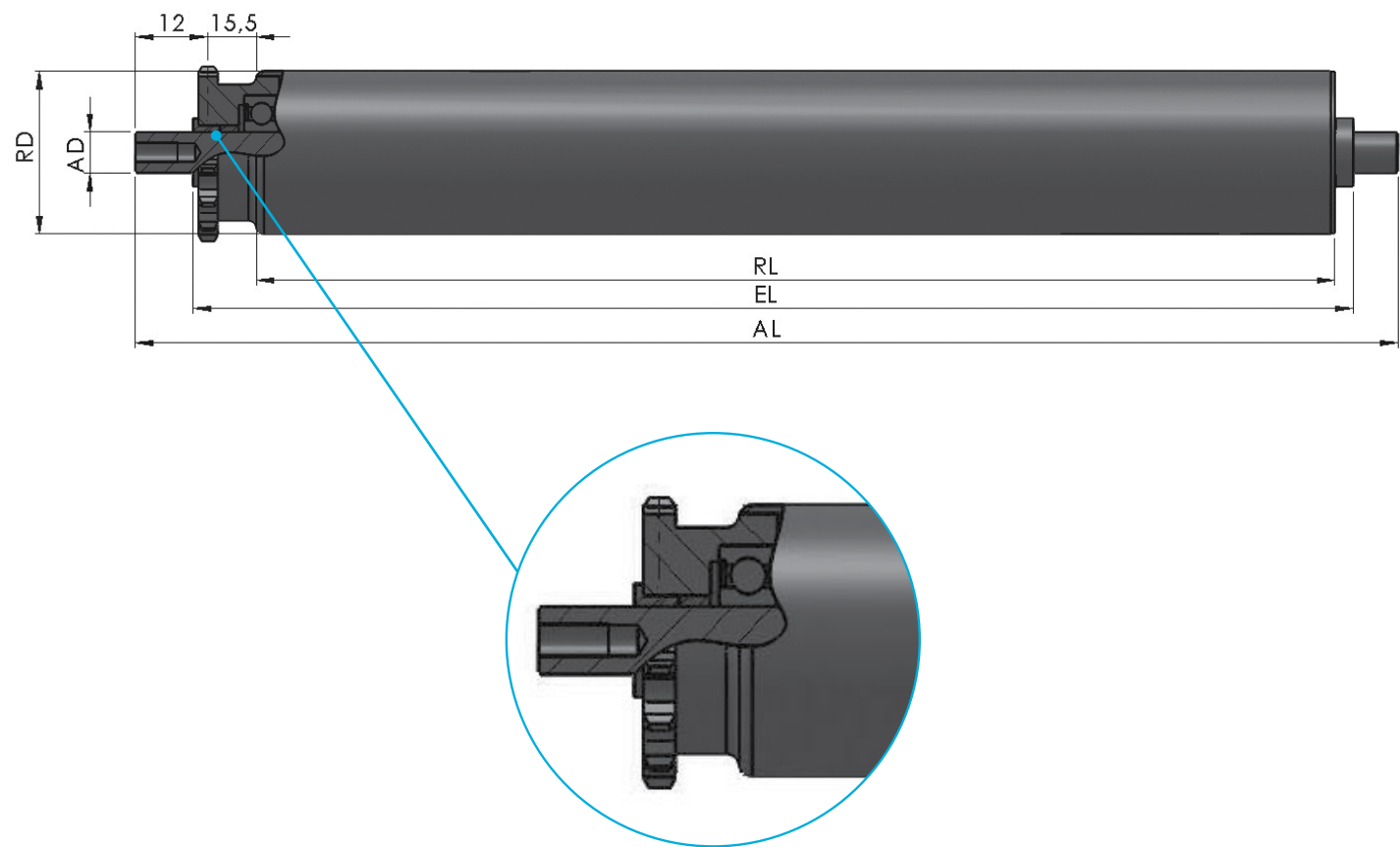
Axle type

counter-bearing	axle-Ø mm	EL=	external thread	internal thread
TKL	10	RL +	45	33
	12	RL +	47	33
	14	RL +	49	33
TRK	10	RL +	47	35
	12	RL +	49	35
	14	RL +	51	35

 "The axle length and installation length change depending on the type of axle end finishing"

Order example

type	1K-ST-1/2-Z11-fixed	TKL	50x2	STI	A12	IGM8	EL=533	AL= x
rollers type								
type counter-bearing								
tube-Ø and wall thickness								
tube surface								
axle-Ø								
axle end finishing								
installation length								
axle length AL								



1K-ST-1/2-Z11-welded

- Areas of use:**

 - for conveying lightweight to medium-weight products on a power-driven roller conveyor
 - for dry and dust-free environments

counter-bearing:

 - the type of bearing depends on the application
Select between TKL and TRK

Drive:

 - single sprocket made of steel, welded with the tube, lantern gear sprocket teeth
 - sprocket size: 1/2" x 5/16", with 11 teeth
- Properties:**

 - temperature range: -5 to +50° C
 - speed: max. 0.5 m/s
 - load capacity: max. 100 kg/roller
(Depending on the load limit of tube, bearing and axle;
refer to the general information)

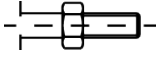
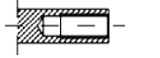
Optional:

 - available with various coatings
 - antistatic
 - stainless steel bearing, tube and axle
 - for heated and cold storage applications
 - with flanges

Combination

counter-bearing		TKL	TRK	tube-Ø	axle-Ø	ST	STI	STP	N	KB	KGH	ALU	STG
		x	x	50 x 1.5	10 / 12 / 14	x	x	x	x			x	x
		x	x	50 x 2	10 / 12 / 14	x	x	x	x				x
		x		50 x 2.8	10 / 12 / 14					x	x		
		x	x	60 x 2	10 / 12 / 14	x	x	x					x
		x		60.3 x 1.65	10 / 12 / 14				x				x
		x		63 x 3	10 / 12 / 14					x	x		
		x	x	80 x 2	10 / 12 / 14	x	x	x	x				x
		x		90 x 7	10 / 12 / 14					x	x		

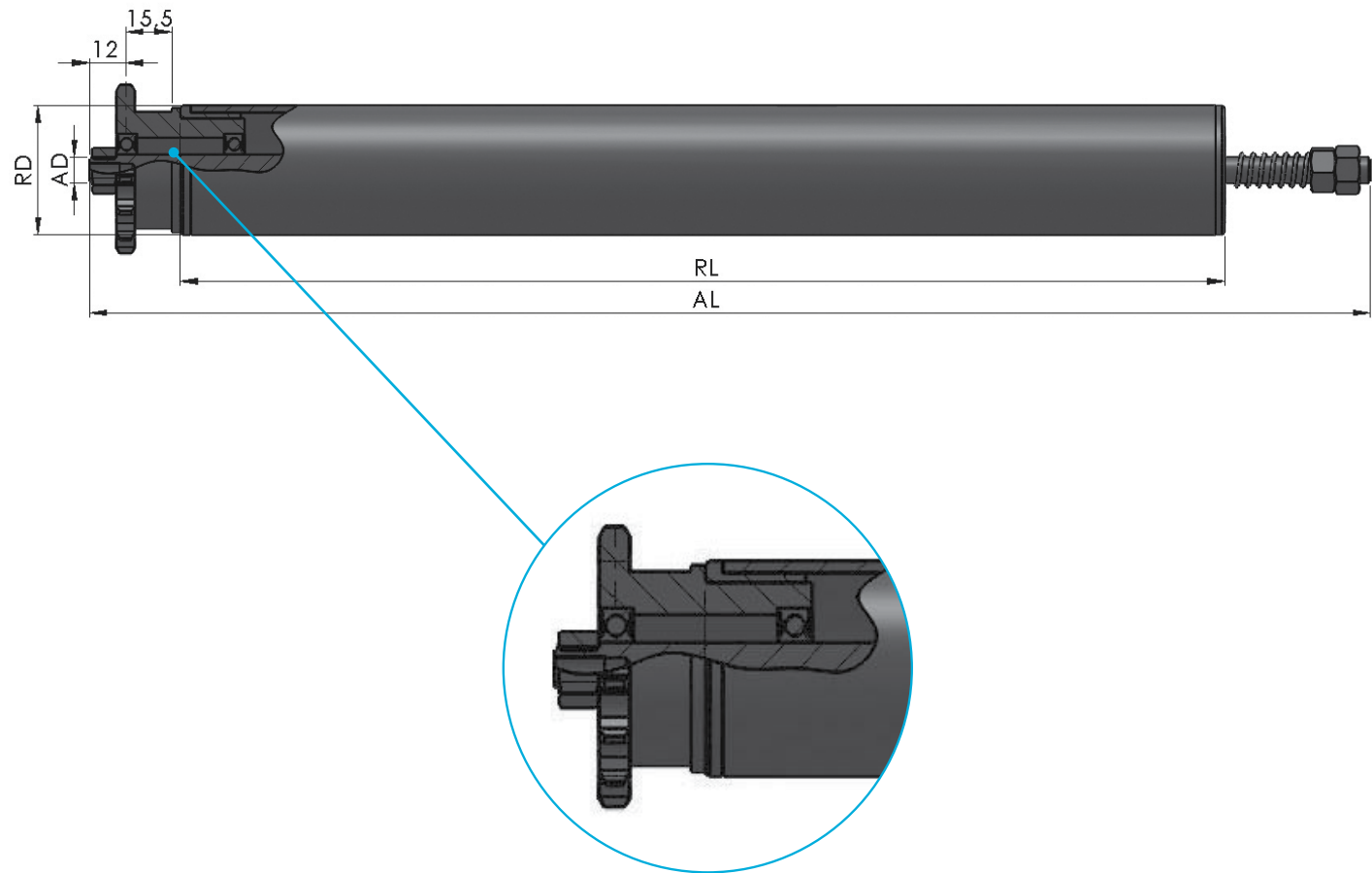
Axle type

counter-bearing	axle-Ø mm	EL=	 external thread	 internal thread
TKL	10	RL +	45	33
	12	RL +	47	33
	14	RL +	49	33
TRK	10	RL +	47	35
	12	RL +	49	35
	14	RL +	51	35

 "The axle length and installation length change depending on the type of axle end finishing"

Order example

type	1K-ST-1/2-Z11-welded	TKL	50x2	STI	A12	IGM8	EL=533	AL= x
rollers type								
type counter-bearing								
tube-Ø and wall thickness								
tube surface								
axle-Ø								
axle end finishing								
installation length								
axle length AL								



Combination

counter-bearing										
TKL	tube-Ø	axle-Ø	ST	STI	STP	N	KB	KGH	ALU	STG
x	50 x 1.5	12	x	x	x	x			x	x
x	50 x 2	12	x	x	x	x				x
x	50 x 2.8	12					x	x		
x	60 x 2	12	x	x	x					x
x	60.3 x 1.65	12				x				x
x	63 x 3	12					x	x		

Axle type

counter-bearing	axle-Ø mm	EL=AL	 internal thread
TKL	12	RL +	59

 "The axle length and installation length change depending on the type of axle end finishing"

1K-ST-1/2-Z11-adjustable accumulating drive

Areas of use:

- for conveying lightweight to medium-weight products on a power-driven roller conveyor
- for dry and dust-free environments

counter-bearing:

- bearing type: TKL
- all suitable for operating in wet applications when using the RS bearing seal

Drive:

- single sprocket made of steel, lantern gear sprocket teeth
- sprocket size: 1/2" x 5/16", with 11 teeth
- the take-along force can be adjusted manually

Properties:

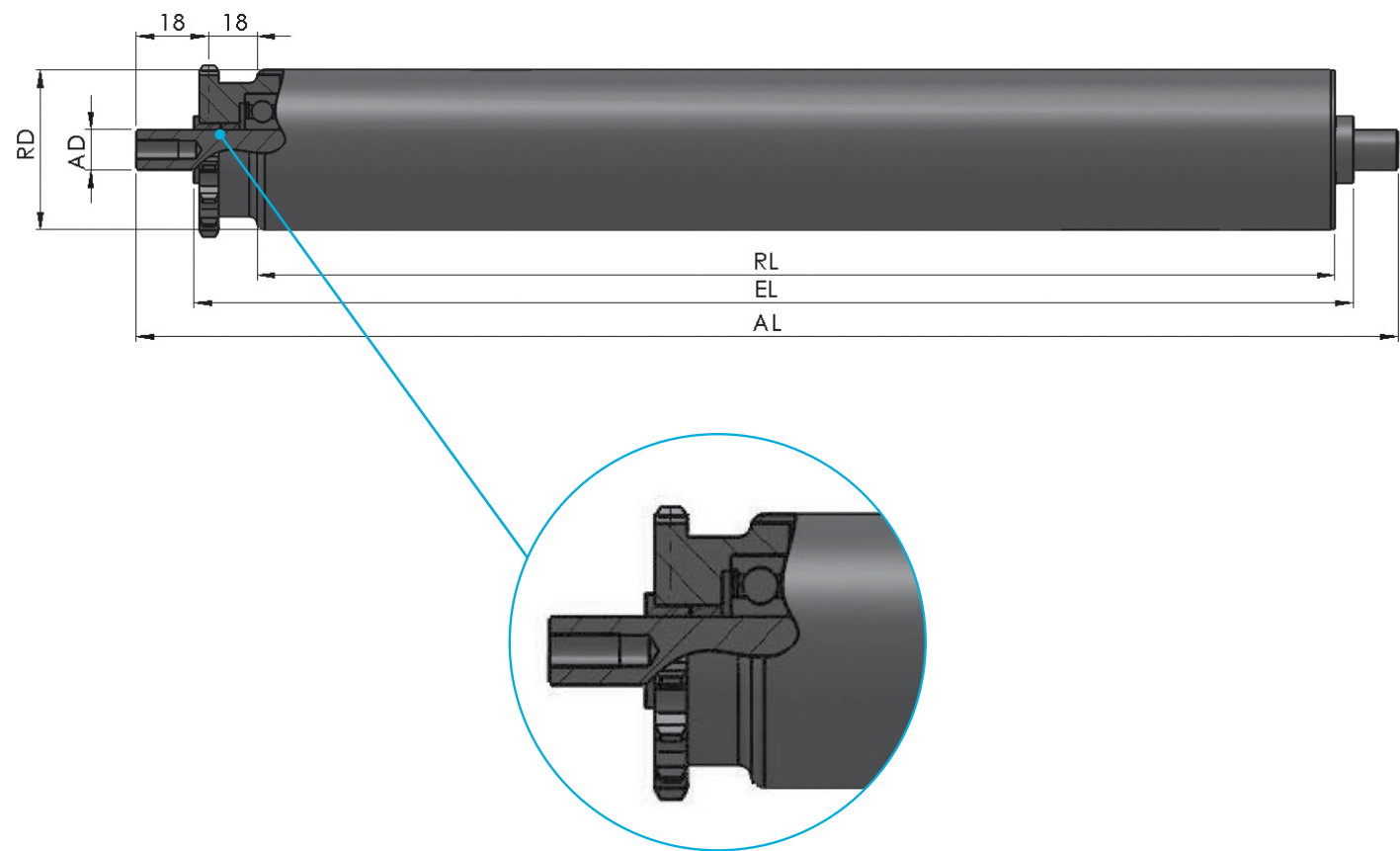
- temperature range: -5 to +50° C
- speed: 0.5 m/s
- load capacity: max. 60 kg/roller
(Depending on the load limit of tube, bearing and axle; refer to the general information)

Optional:

- available with various coatings
- antistatic
- stainless steel bearing, tube and axle
- for heated and cold storage applications
- with flanges

Order example

type	1K-ST-1/2-Z11-adjustable	TKL	50x2	STI	A12	IGM8	EL=559
rollers type							
type counter-bearing							
tube-Ø and wall thickness							
tube surface							
axle-Ø							
axle end finishing							
installation length							



1K-ST-5/8-Z15

- Areas of use:**

 - for conveying medium-weight to heavy products on a power-driven roller conveyor
 - for dry and dust-free environments

counter-bearing:

 - the type of bearing depends on the application select between TRKS and TGF

Drive:

 - single sprocket made of steel, welded to tube, lantern gear sprocket teeth
 - sprocket size: 5/8" x 3/8", with 15 teeth
- Properties:**

 - temperature range: -5 to +80° C
 - speed: 0.5 m/s
 - load capacity: max. 350 kg/roller
(Depending on the load limit of tube, bearing and axle; refer to the general information)

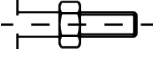
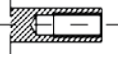
Optional:

 - available with various coatings
 - antistatic
 - tube and axle made from stainless steel
 - for heated and cold storage applications
 - with flanges

Combination

counter-bearing		tube-Ø	axle-Ø				
TGF	TRKS			ST	STI	STP	STG
x	x	63.5 x 2.9	20	x	x		x
x	x	80 x 2	20 / 25	x	x	x	x
x	x	88.9 x 2.9	20 / 25	x	x	x	x
x	x	108 x 3.25	20 / 25	x	x	x	x
x		133 x 4	20 / 25	x	x		x

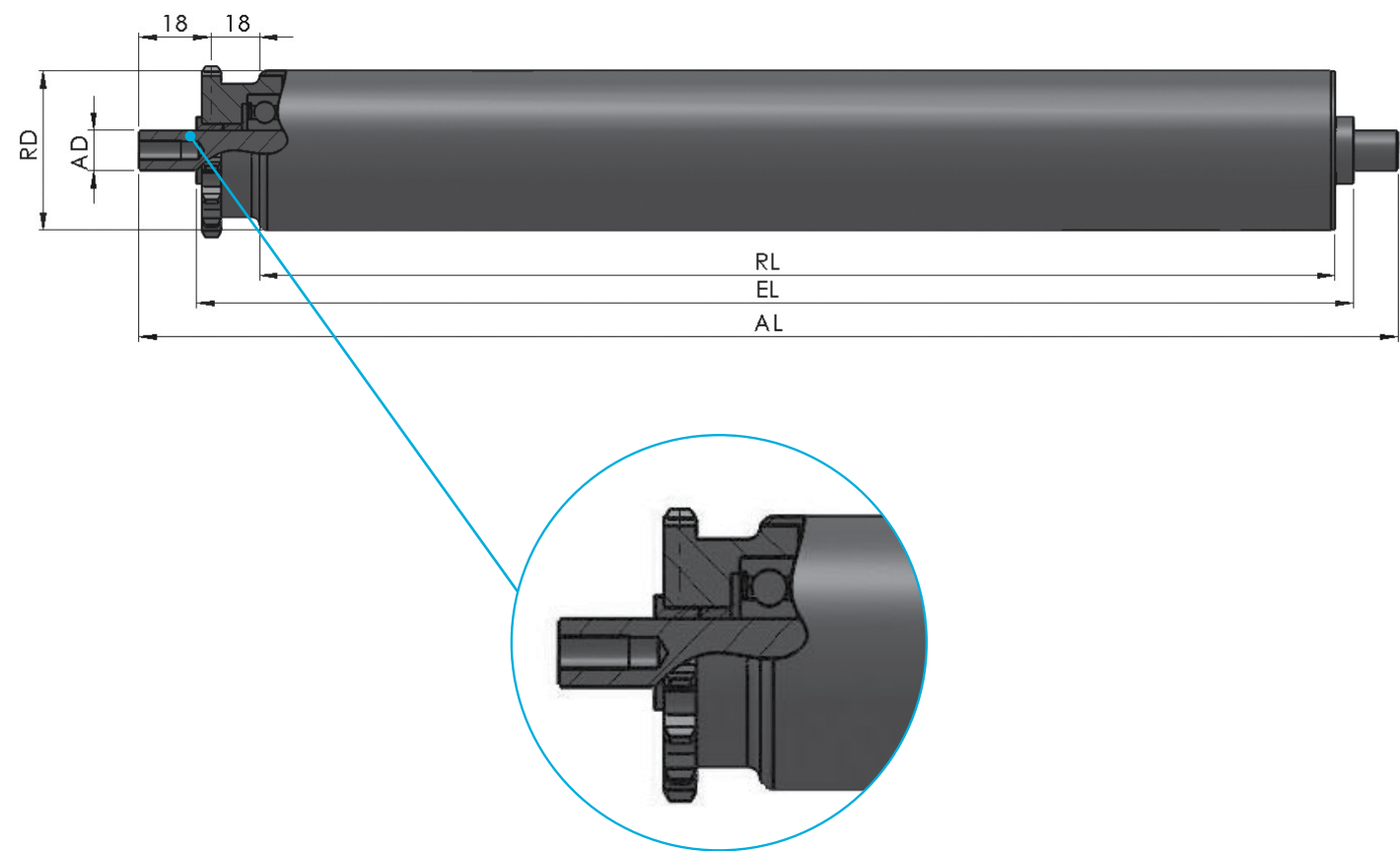
Axle type

counter-bearing	axle-Ø mm	EL=		
			external thread	internal thread
TRKS	20	RL +	85	41
	25	RL +	87	41
TGF	20	RL +	85	41
	25	RL +	87	41

 "The axle length and installation length change depending on the type of axle end finishing"

Order example

type	1K-ST-5/8 Z15	TGF	88.9x2.9	STI	A20	IGM12	EL=850	AL= x
rollers type								
type counter-bearing								
tube-Ø and wall thickness								
tube surface								
axle-Ø								
axle end finishing								
installation length								
axle length AL								



1K-ST-3/4-Z13

- Areas of use:**
- for conveying medium-weight to heavy products on a power-driven roller conveyor
 - for dry and dust-free environments

- counter-bearing:**
- the type of bearing depends on the application select between TRKS and TGF

- Drive:**
- single sprocket made of steel, welded to tube, lantern gear sprocket teeth
 - sprocket size: 3/4" x 7/16", with 13 teeth

- Properties:**
- temperature range: -5 to +80° C
 - speed: 0.5 m/s
 - load capacity: max. 350 kg/roller
(Depending on the load limit of tube, bearing and axle; refer to the general information)

- Optional:**
- available with various coatings
 - antistatic
 - tube and axle made from stainless steel
 - for heated and cold storage applications
 - with flanges

Combination

counter-bearing		tube-Ø	axle-Ø				
TGF	TRKS			ST	STI	STP	STG
x	x	80 x 2	20 / 25	x	x	x	x
x	x	88.9 x 2.9	20 / 25	x	x	x	x
x	x	108 x 3.25	20 / 25	x	x	x	x
x		133 x 4	20 / 25	x	x		x

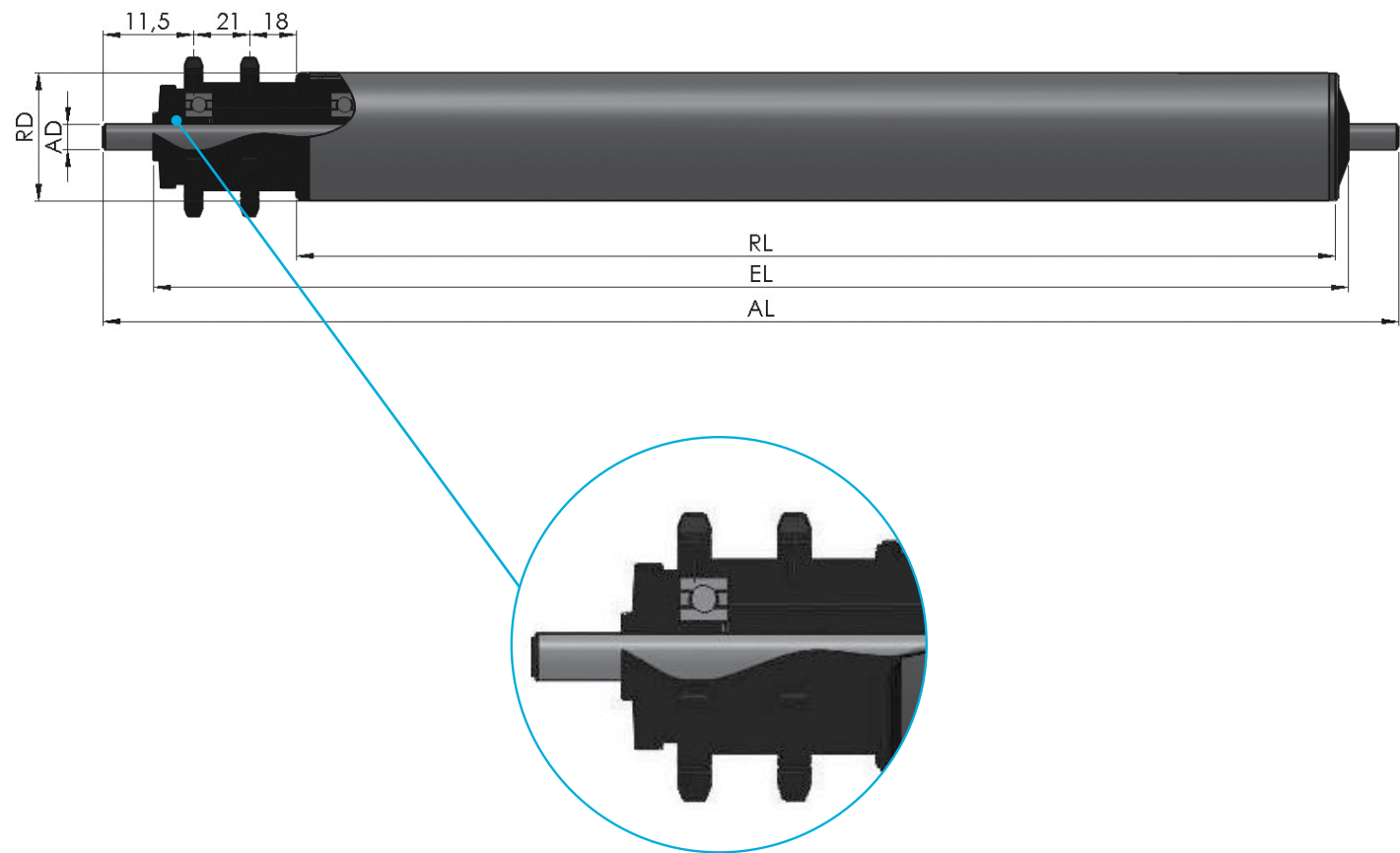
Axle type

counter-bearing	axle-Ø mm	EL=		
			external thread	internal thread
TRKS	20	RL +	59	41
	25	RL +	61	41
TGF	20	RL +	59	41
	25	RL +	61	41

 "The axle length and installation length change depending on the type of axle end finishing"

Order example

type	1K-ST-3/4 Z13	TGF	88.9x2.9	STI	A20	IGM12	EL=850	AL= x
rollers type								
type counter-bearing								
tube-Ø and wall thickness								
tube surface								
axle-Ø								
axle end finishing								
installation length								
axle length AL								



2K-KU-1/2-Z14-fixed/accumulating

Areas of use:

- for transporting lightweight products on a power-driven roller conveyor
- for dry and dust-free environments

counter-bearing:

- the type of bearing depends on the application select between TKL and TRK

Drive:

- double sprocket made of plastic
- sprocket size: 1/2" x 5/16", with 14 teeth
- available as fix: (fixed drive) or accu: (accumulating drive)

Properties:

- temperature range: -5 to +50° C
- speed: 0.5 m/s
- minimal running noises
- load capacity: max. 40 kg/roller (Depending on the load limit of tube, bearing and axle; refer to the general information)

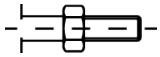

Optional:

- available with various coatings
- stainless steel ball bearing, tube and axle

Combination

counter-bearing		TKL	TRK	tube-Ø	axle-Ø	ST	STI	STP	N	KB	KGH	ALU	STG
x	x			50 x 1.5	10 / 12 / 14	x	x	x	x			x	x
x	x			50 x 2	10 / 12 / 14	x	x	x	x				x
x				50 x 2.8	10 / 12 / 14					x	x		
x	x			60 x 2	10 / 12 / 14	x	x	x					x
x				60.3 x 1.65	10 / 12 / 14				x				x
x				63 x 3	10 / 12 / 14					x	x		
x	x			80 x 2	10 / 12 / 14	x	x	x	x				x
x				90 x 7	10 / 12 / 14					x	x		

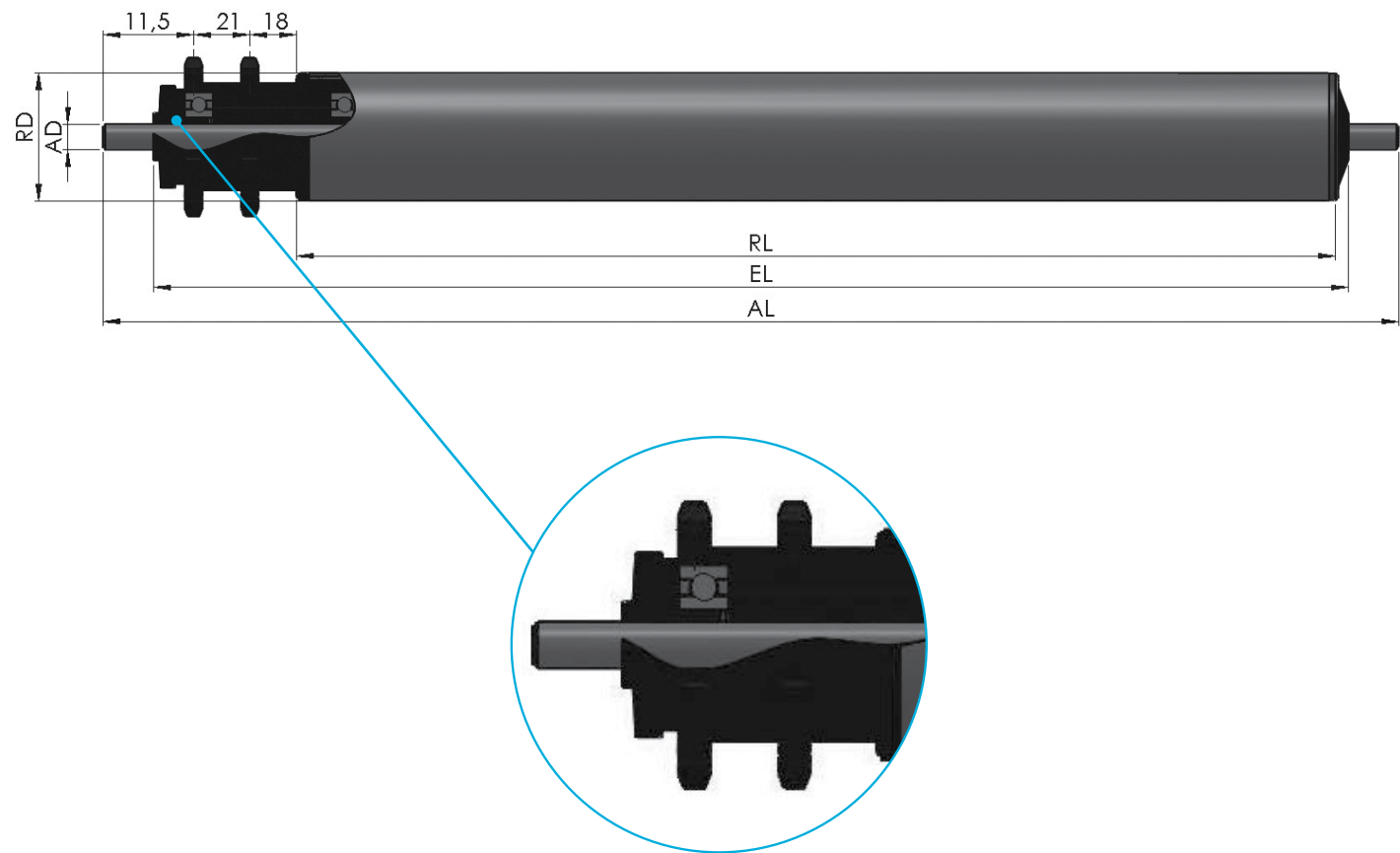
Axle type

counter-bearing	axle-Ø mm	EL=	 external thread	 internal thread
TKL	10	RL +	69	57
	12	RL +	71	57
	14	RL +	73	57
TRK	10	RL +	71	57
	12	RL +	73	57
	14	RL +	75	57

 "The axle length and installation length change depending on the type of axle end finishing"

Order example

type	2K-KU-1/2-Z14-fixed	TKL	50x2.8	KB	A12	IGM8	EL=557	AL= x
rollers type								
type counter-bearing								
tube-Ø and wall thickness								
tube surface								
axle-Ø								
axle end finishing								
installation length								
axle length AL								



2K-ST-1/2-Z14-fixed/accumulating

- Areas of use:**

 - for conveying lightweight to medium-weight products on a power-driven roller conveyor
 - for dry and dust-free environments

counter-bearing:

 - the type of bearing depends on the application select between TKL and TRK

Drive:

 - double sprocket made of steel
 - sprocket size: 1/2" x 5/16", with 14 teeth
 - available as fix: (fixed drive) or accu: accumulating drive
- Properties:**

 - temperature range: -5 to +50° C
 - speed: 0.5 m/s
 - load capacity: max. 100 kg/roller
(Depending on the load limit of tube, bearing and axle; refer to the general information)

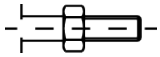

Optional:

 - available with various coatings
 - stainless steel bearing, tube and axle
 - for heated and cold storage applications

Combination

counter-bearing		tube-Ø	axle-Ø	ST	STI	STP	N	KB	KGH	ALU	STG
TKL	TRK										
x	x	50 x 1.5	10 / 12 / 14	x	x	x	x			x	x
x	x	50 x 2	10 / 12 / 14	x	x	x	x				x
x		50 x 2.8	10 / 12 / 14					x	x		
x	x	60 x 2	10 / 12 / 14	x	x	x					x
x		60.3 x 1.65	10 / 12 / 14				x				x
x		63 x 3	10 / 12 / 14					x	x		
x	x	80 x 2	10 / 12 / 14	x	x	x	x				x
x		90 x 7	10 / 12 / 14					x	x		

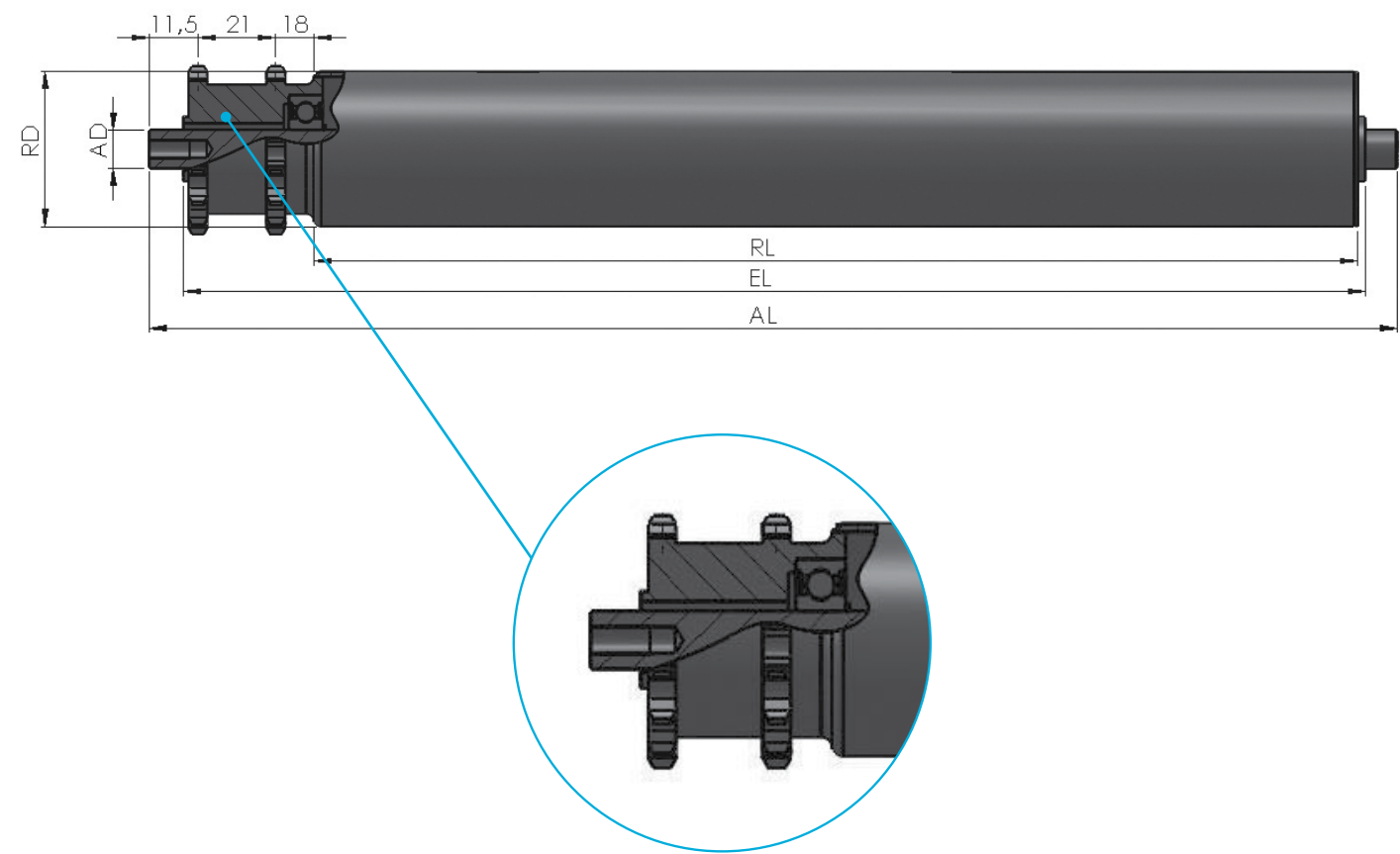
Axle type

counter-bearing	axle-Ø mm	EL=		
			external thread	internal thread
TKL	10	RL +	69	57
	12	RL +	71	57
	14	RL +	73	57
TRK	10	RL +	71	59
	12	RL +	73	59
	14	RL +	75	59

 "The axle length and installation length change depending on the type of axle end finishing"

Order example

type	2K-ST-1/2-Z14-fixed	TKL	60x2	STI	A12	IGM8	EL=557	AL= x
rollers type								
type counter-bearing								
tube-Ø and wall thickness								
tube surface								
axle-Ø								
axle end finishing								
installation length								
axle length AL								



2K-ST-1/2-Z14-welded

Areas of use:

- for conveying lightweight to medium-weight products on a power-driven roller conveyor
- for dry and dust-free environments

counter-bearing:

- the type of bearing depends on the application select between TKL and TRK

Drive:

- double sprocket made of steel, welded to the tube
- sprocket size: 1/2" x 5/16", with 14 teeth

Properties:

- temperature range: -5 to +50° C
- speed: 0.5 m/s
- load capacity: max. 100 kg/roller
(Depending on the load limit of tube, bearing and axle; refer to the general information)

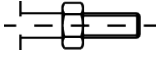

Optional:

- available with various coatings
- antistatic
- stainless steel bearing, tube and axle
- for heated and cold storage applications
- with flanges

Combination

counter-bearing											
TKL	TRK	tube-Ø	axle-Ø	ST	STI	STP	N	KB	KGH	ALU	STG
x	x	50 x 1.5	10 / 12 / 14	x	x	x	x			x	x
x	x	50 x 2	10 / 12 / 14	x	x	x	x				x
x		50 x 2.8	10 / 12 / 14					x	x		
x	x	60 x 2	10 / 12 / 14	x	x	x					x
x		60.3 x 1.65	10 / 12 / 14				x				x
x		63 x 3	10 / 12 / 14					x	x		
x	x	80 x 2	10 / 12 / 14	x	x	x	x				x
x		90 x 7	10 / 12 / 14					x	x		

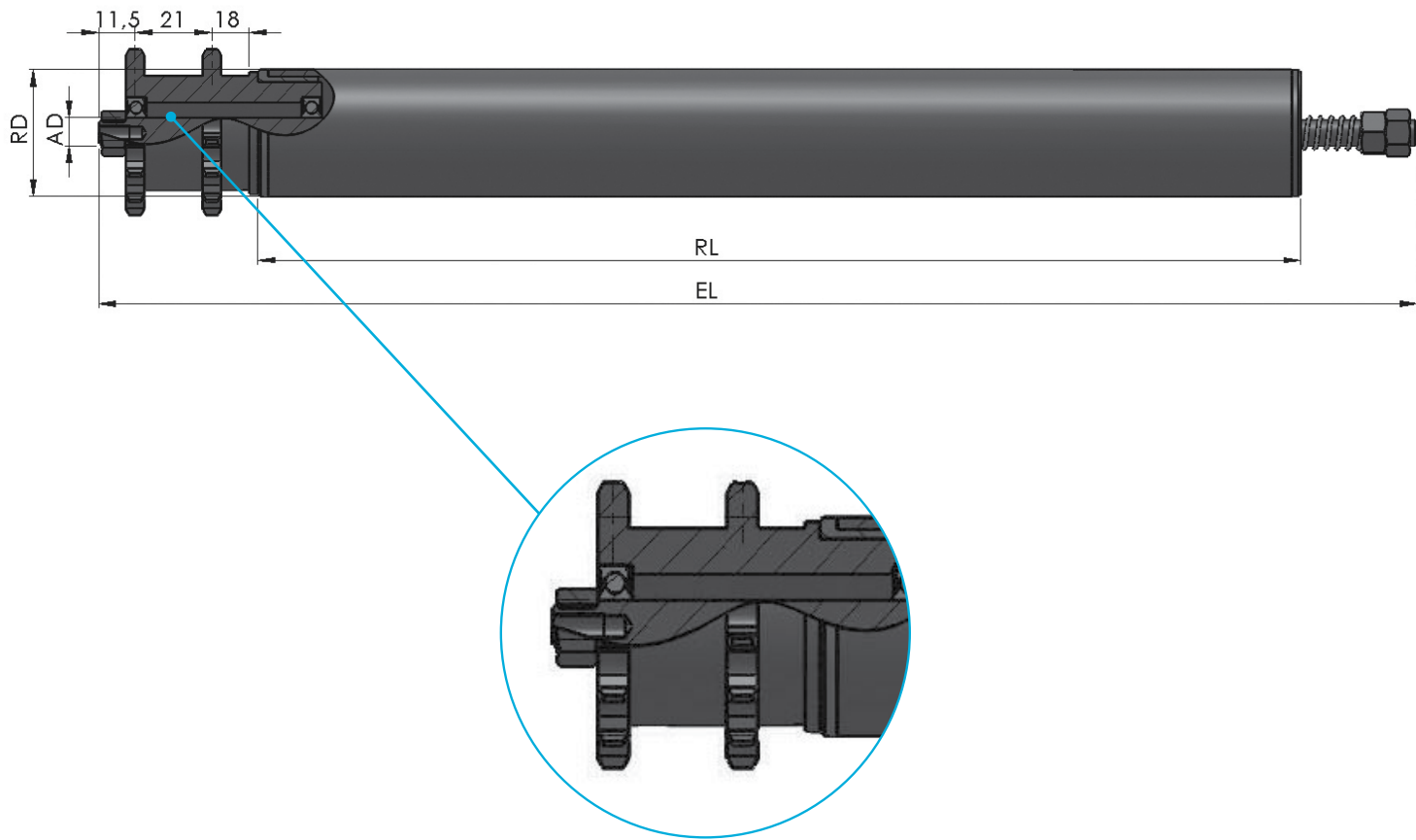
Axle type

counter-bearing	axle-Ø mm	EL=	 external thread	 internal thread
TKL	10	RL +	69	57
	12	RL +	71	57
	14	RL +	73	57
TRK	10	RL +	71	59
	12	RL +	73	59
	14	RL +	75	59

 "The axle length and installation length change depending on the type of axle end finishing"

Order example

type	2K-ST-1/2-Z14-welded	TKL	60x2	STI	A12	IGM8	EL=557	AL= x
rollers type								
type counter-bearing								
tube-Ø and wall thickness								
tube surface								
axle-Ø								
axle end finishing								
installation length								
axle length AL								



Combination

counter-bearing										
TKL	tube-Ø	axle-Ø	ST	STI	STP	N	KB	KGH	ALU	STG
x	50 x 1.5	12	x	x	x	x			x	x
x	50 x 2	12	x	x	x	x				x
x	50 x 2.8	12					x	x		
x	60 x 2	12	x	x	x					x
x	60.3 x 1.65	12				x				x
x	63 x 3	12					x	x		

Axle type

counter-bearing	axle-Ø mm	EL=	
TKL	12	RL +	82 internal thread

 "The axle length and installation length change depending on the type of axle end finishing"

2K-ST-1/2-Z14 – adjustable accumulating drive

Areas of use:

- for conveying lightweight to medium-weight products on a power-driven roller conveyor
- for dry and dust-free environments

counter-bearing:

- bearing type: TKL
- the type of bearing depends on the application

Drive:

- double sprocket made of steel
- sprocket size: 1/2" x 5/16", with 14 teeth
- the take-along force can be adjusted manually

Properties:

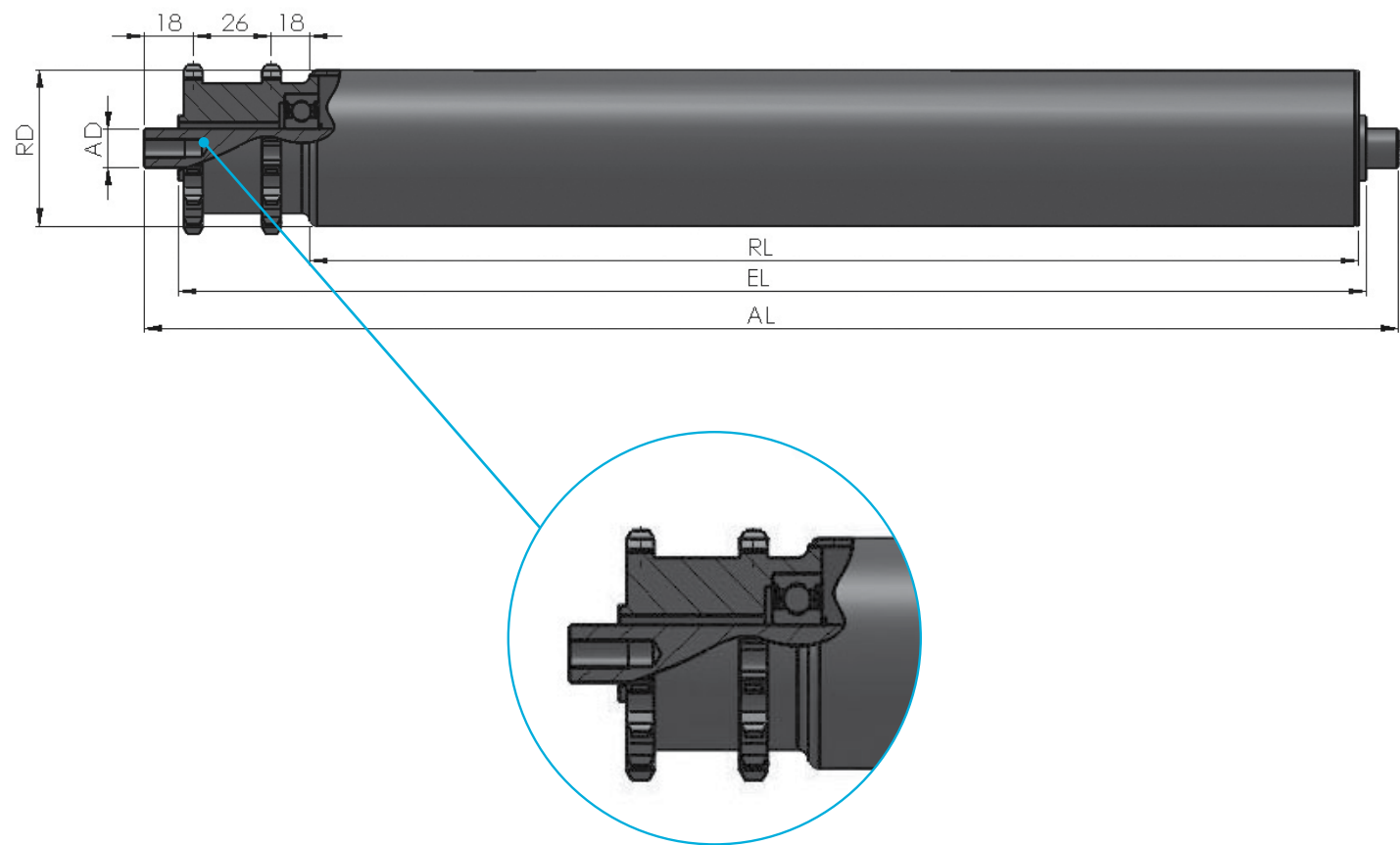
- temperature range: -5 to +50° C
- speed: 0.5 m/s
- load capacity: max. 60 kg/roller
- (Depending on the load limit of tube, bearing and axle; refer to the general information)

Optional:

- available with various coatings
- antistatic
- stainless steel bearing, tube and axle
- for heated and cold storage applications
- with flanges

Order example

type	2K-ST-1/2-Z14-adjustable	TKL	60x2	STI	A12	IGM8	EL=682
rollers type							
type counter-bearing							
tube-Ø and wall thickness							
tube surface							
axle-Ø							
axle end finishing							
installation length							



2K-ST-5 / 8-Z15

- Areas of use:**

 - for transporting heavy products on a power-driven roller conveyor
 - for dry and dust-free environments

Bearing:

 - the type of bearing depends on the application
Select between TRKS and TGF

Drive:

 - double sprocket made of steel, welded to the tube,
 - sprocket size: 5/8" x 3/8" with 15 teeth
- Properties:**

 - temperature range: -5 to +80° C
 - speed: 0.5 m/s
 - load capacity: max. 350 kg/roller
(Depending on the load limit of tube, bearing and axle;
refer to the general information)

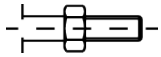

Optional:

 - available with various coatings
 - antistatic
 - tube and axle made from stainless steel
 - for heated and cold storage applications
 - with flanges

Combination

counter-bearing		tube-Ø	axle-Ø	ST	STI	STP	STG
TGF	TRKS						
x	x	63.5 x 2.9	20	x	x		x
x	x	80 x 2	20 / 25	x	x	x	x
x	x	88.9 x 2.9	20 / 25	x	x	x	x
x	x	108 x 3.25	20 / 25	x	x	x	x
x		133 x 4	20 / 25	x	x		x

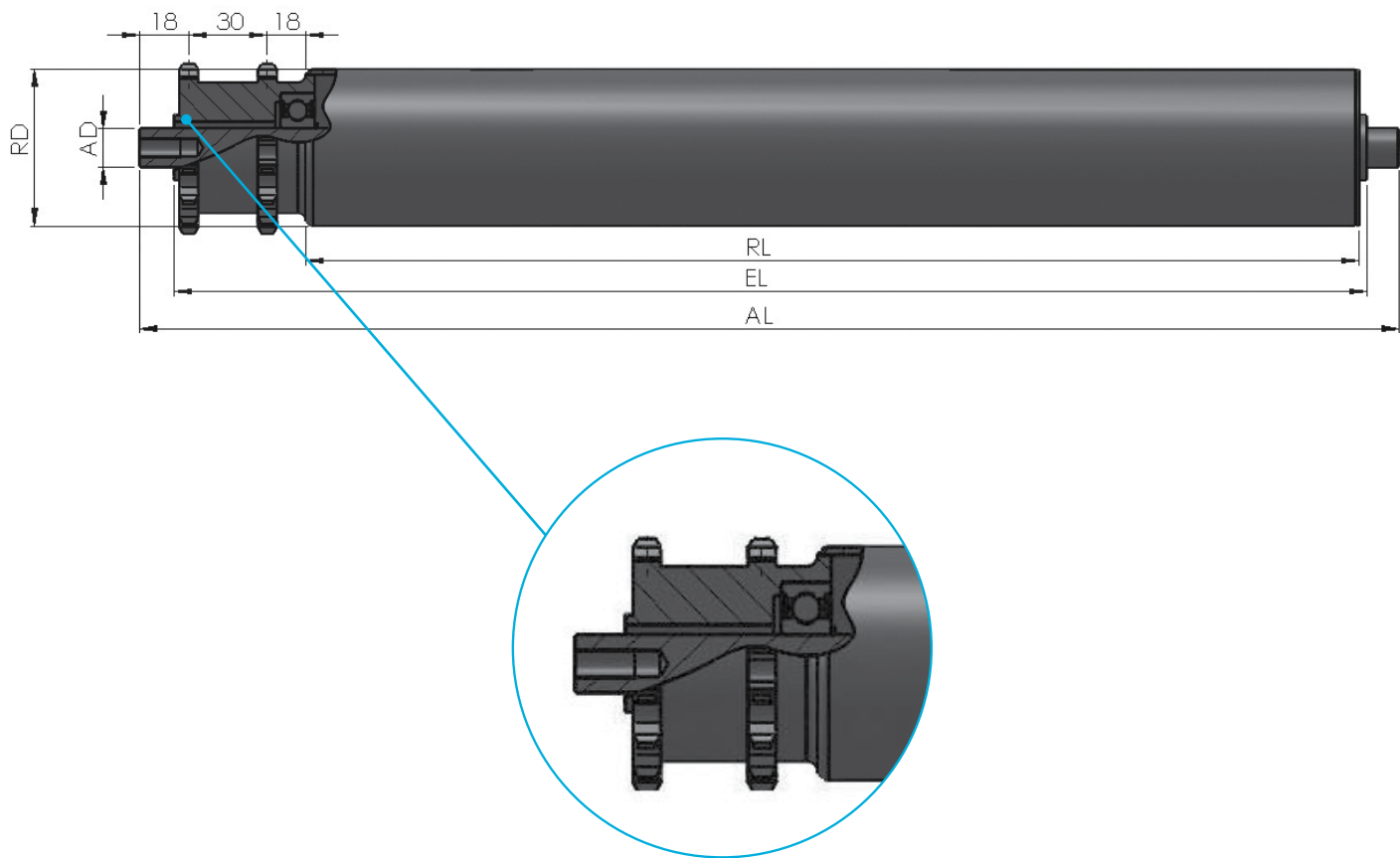
Axle type

counter-bearing	axle-Ø mm	EL=	 external thread	 internal thread
TRKS	20	RL +	85	67
	25	RL +	87	67
TGF	20	RL +	85	67
	25	RL +	87	67

 "The axle length and installation length change depending on the type of axle end finishing"

Order example

type	2K-ST-5/8 Z15	TGF	108x3.25	STI	A20	IGM12	EL=850	AL= x
rollers type								
type counter-bearing								
tube-Ø and wall thickness								
tube surface								
axle-Ø								
axle end finishing								
installation length								
axle length AL								



2K-ST-3/4-Z13

- Areas of use:**

 - for transporting heavy products on a power-driven roller conveyor
 - for dry and dust-free environments

Bearing:

 - the type of bearing depends on the application
Select between TRKS and TGF

Drive:

 - double sprocket made of steel, welded to the tube
 - sprocket size: 3/4" x 7/16", with 13 teeth
- Properties:**

 - temperature range: -5 to +80° C
 - speed: 0.5 m/s
 - load capacity: max. 350 kg/roller
(Depending on the load limit of tube, bearing and axle;
refer to the general information)



Optional:

 - available with various coatings
 - antistatic
 - tube and axle made from stainless steel
 - for heated and cold storage applications
 - with flanges

Combination

counter-bearing		tube-Ø	axle-Ø	ST	STI	STP	STG
TGF	TRKS						
x	x	80 x 2	20 / 25	x	x	x	x
x	x	88.9 x 2.9	20 / 25	x	x	x	x
x	x	108 x 3.25	20 / 25	x	x	x	x
x		133 x 4	20 / 25	x	x		x

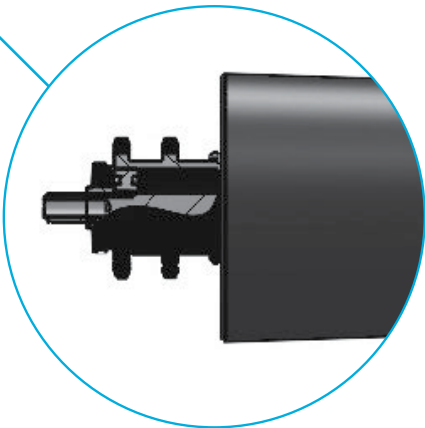
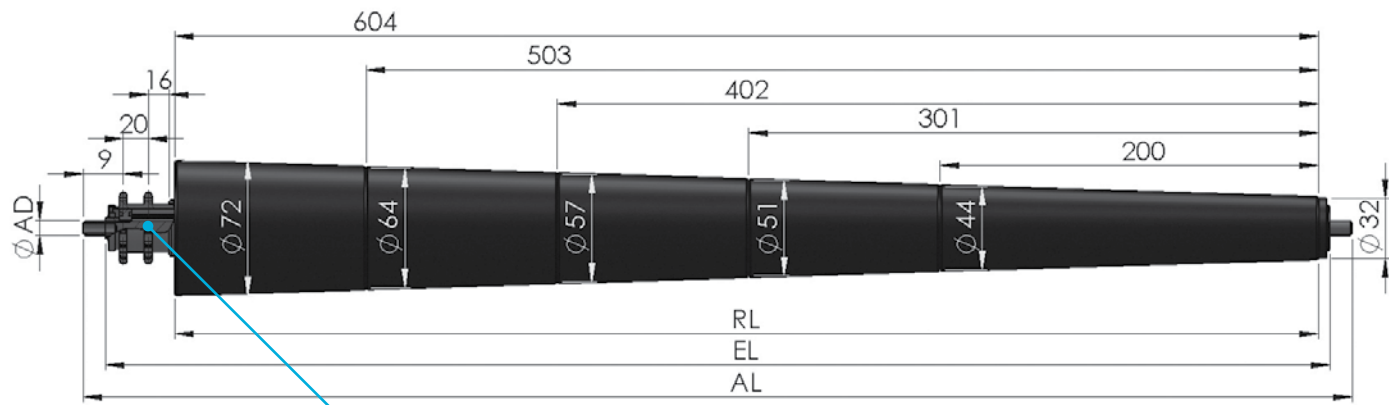
Axle type

counter-bearing	axle-Ø mm	EL=	 external thread	 internal thread
TRKS	20	RL +	89	71
	25	RL +	91	71
TGF	20	RL +	89	71
	25	RL +	91	71

 "The axle length and installation length change depending on the type of axle end finishing"

Order example

type	2K-ST-3/4 Z13	TGF	133x4	STI	A25	IGM16	EL=1250	AL= x
rollers type								
type counter-bearing								
tube-Ø and wall thickness								
tube surface								
axle-Ø								
axle end finishing								
installation length								
axle length AL								



KFR30-2K-ST-3/8-Z12

- Areas of use:**

 - for transporting medium-weight products on a power-driven roller conveyor
 - for dry and dust-free environments

Counter-bearing:

 - bearing base made of thermoplastic

Drive:

 - sprocket size: 3/8" x 7/32", with 12 teeth, fixed drive

Variants:

 - double sprocket made of plastic: KFR30-2K-KU-3/8-Z12
 - double sprocket made of steel: KFR30-2K-ST-3/8-Z12
- Properties:**

 - plastic furring strips, abrasion resistant, on inner tube Ø 30 mm
 - runs quietly
 - temperature range: -5 to +50° C
 - speed: 0.5 m/s
 - load capacity: max. 80 kg/roller
(Depending on the load limit of tube, bearing and axle;
refer to the general information)

Optional:

 - tapered tube made of steel or galvanized steel
 - stainless steel bearing, tube and axle
 - custom lengths

Combination

counter-bearing								
TKL	KUT50	tube-Ø	axle-Ø	ST	STI	N	KB	KGH
x	x	30 x 1	8	x	x	x		
x	x	30 x 1.8	8				x	x

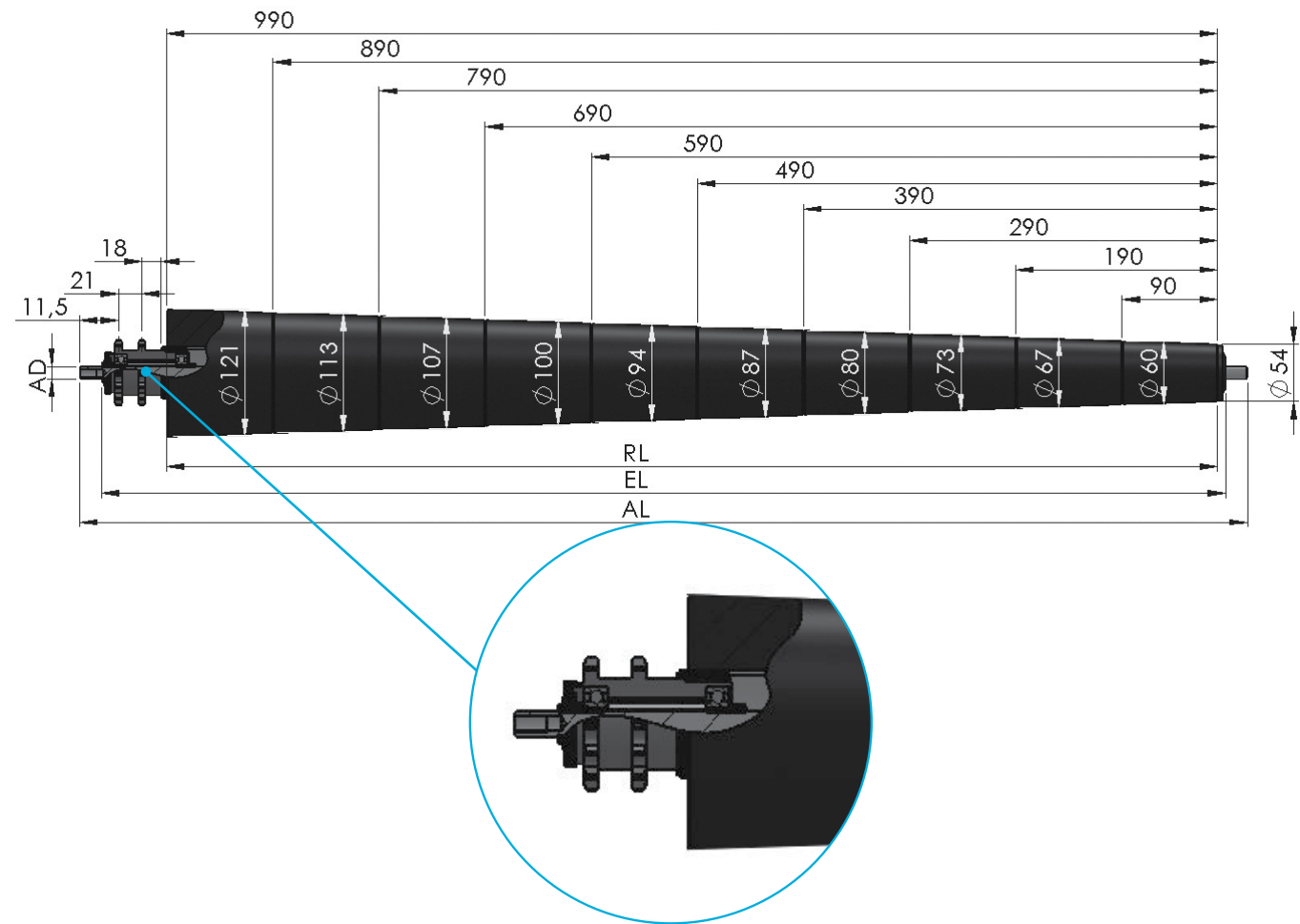
Axle type

counter-bearing	axle-Ø mm	EL=	
TKL30	8	RL +	57
KUT50	8	RL +	64

 "The axle length and installation length change depending on the type of axle end finishing"

Order example

type	KFR30-2K3/8-Z12	TKL30	30x1	STI	A8	M8x15	EL=340
rollers type							
type counter-bearing							
tube-Ø and wall thickness							
tube surface							
axle-Ø							
axle end finishing							
installation length							



KFR50-2K-ST-1/2-Z14-fixed/accumulating/welded

- Areas of use:**

 - for transporting medium-weight products on a power-driven roller conveyor
 - for dry and dust-free environments

counter-bearing:

 - bearing base made of thermoplastic with labyrinth seal

Drive:

 - sprocket size: 1/2" x 5/16", with 14 teeth

Selection:

 - double sprocket made of plastic: KFR50-2K-KU-1/2-Z14
 - double sprocket made of steel: KFR50-2K-ST-1/2-Z14
- Properties:**

 - plastic furring strips, abrasion resistant, on inner tube Ø 50 mm
 - runs quietly
 - temperature range: -5 to +50° C
 - speed: max. 0.5 m/s
 - load capacity: max. 80 kg/roller
(Depending on the load limit of tube, bearing and axle;
refer to the general information)


Optional:

 - tapered tube made of steel or galvanized steel
 - cone made of hard plastic
 - special tapered shapes
 - stainless steel bearing, tube and axle
 - custom lengths

Combination

counter-bearing								
TKL	tube-Ø	axle-Ø	ST	STI	N	KB	KGH	ALU
x	50 x 1.5	10 / 12 / 14	x	x	x			x
x	50 x 2	10 / 12 / 14	x	x	x			
x	50 x 2.8	10 / 12 / 14				x	x	
x	50 x 3	10 / 12 / 14	x	x				

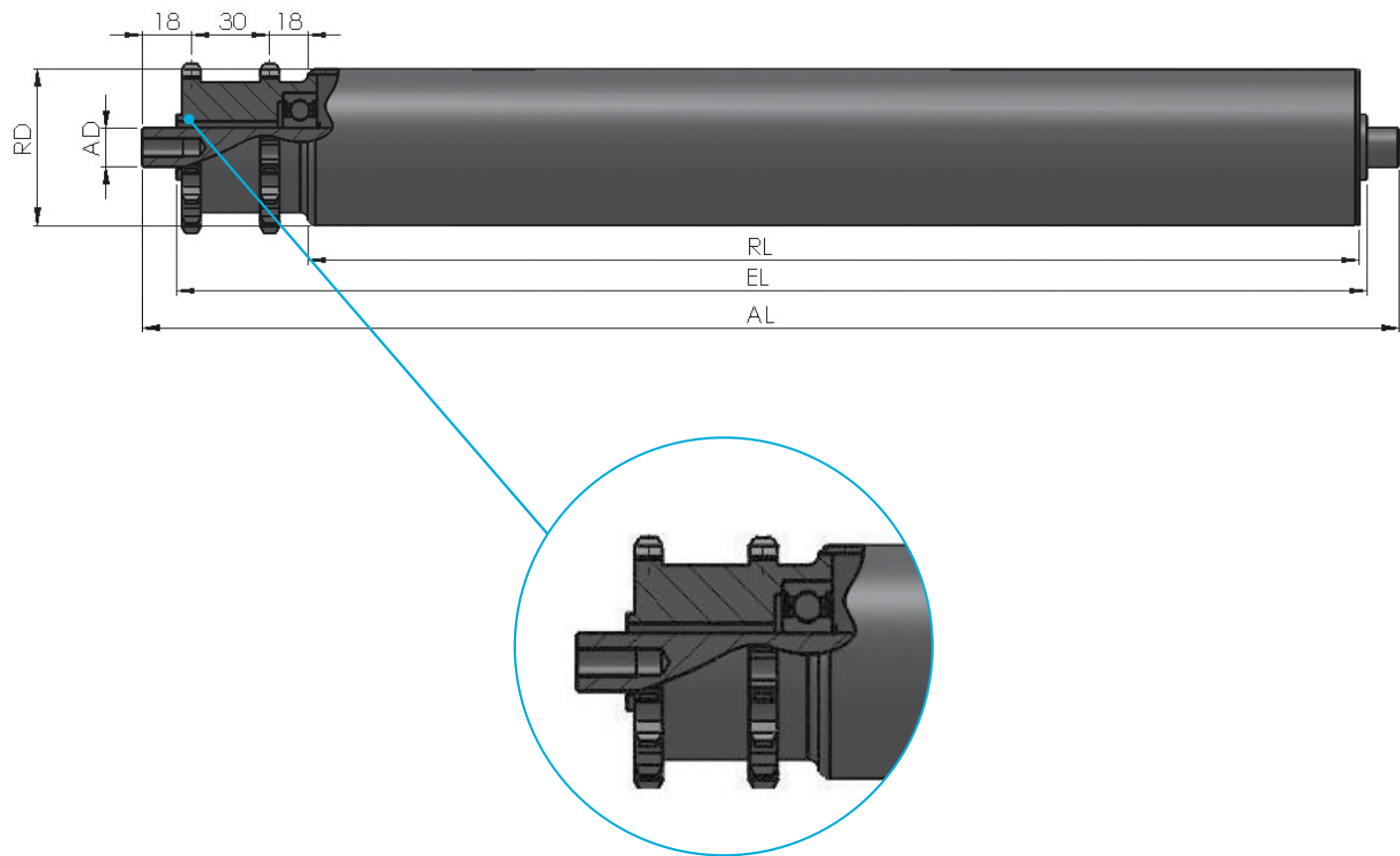
Axle type

counter-bearing	axle-Ø mm	EL=	 internal thread
TKL	10	RL +	66
	12	RL +	66
	14	RL +	66

 "The axle length and installation length change depending on the type of axle end finishing"

Order example

type	KFR50-2K-ST-1/2-Z14	TKL	50x1.5	STI	A12	IGM8	EL=556	AL= x
rollers type								
type counter-bearing								
tube-Ø and wall thickness								
tube surface								
axle-Ø								
axle end finishing								
installation length								
axle length AL								



2K-ST-3/4-Z13

- Areas of use:**

 - for transporting heavy products on a power-driven roller conveyor
 - for dry and dust-free environments

Bearing:

 - the type of bearing depends on the application
Select between TRKS and TGF

Drive:

 - double sprocket made of steel, welded to the tube
 - sprocket size: 3/4" x 7/16", with 13 teeth
- Properties:**

 - temperature range: -5 to +80° C
 - speed: 0.5 m/s
 - load capacity: max. 350 kg/roller
(Depending on the load limit of tube, bearing and axle;
refer to the general information)

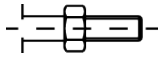

Optional:

 - available with various coatings
 - antistatic
 - tube and axle made from stainless steel
 - for heated and cold storage applications
 - with flanges

Combination

counter-bearing		tube-Ø	axle-Ø	ST	STI	STP	STG
TGF	TRKS						
x	x	80 x 2	20 / 25	x	x	x	x
x	x	88.9 x 2.9	20 / 25	x	x	x	x
x	x	108 x 3.25	20 / 25	x	x	x	x
x		133 x 4	20 / 25	x	x		x

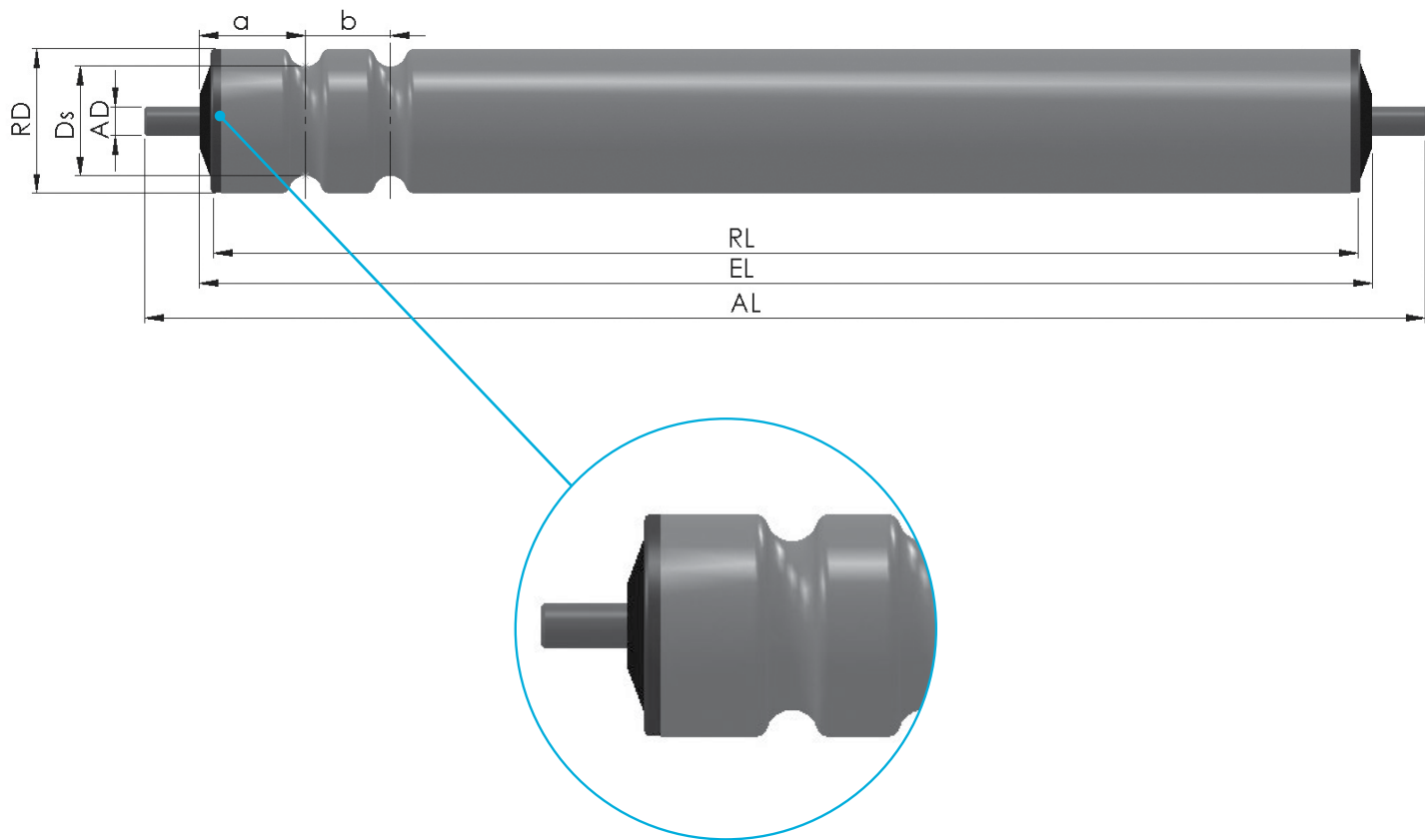
Axle type

counter-bearing	axle-Ø mm	EL=	 external thread	 internal thread
TRKS	20	RL +	89	71
	25	RL +	91	71
TGF	20	RL +	89	71
	25	RL +	91	71

 "The axle length and installation length change depending on the type of axle end finishing"

Order example

type	2K-ST-3/4 Z13	TGF	133x4	STI	A25	IGM16	EL=1250	AL= x
rollers type								
type counter-bearing								
tube-Ø and wall thickness								
tube surface								
axle-Ø								
axle end finishing								
installation length								
axle length AL								



ATS-1/ATS-2

Areas of use:

- for transporting lightweight or medium-weight products on a power-driven roller conveyor
- for dry and dust-free environments

Bearing:

- the type of bearing depends on the application select between TKL and TRK

Properties:

- faster conveying speeds
- accumulating drive
- runs quietly
- with 1 or 2 grooves
- load capacity: max. 50 kg/roller
(Depending on the load limit of tube, bearing and axle; refer to the general information)

Optional:

- available with various coatings
- stainless steel bearing, tube and axle

Combination

bearing				belt	min.	min.	max.									
TKL	TRK	tube-Ø	axle-Ø	R	a	b	a +b	SD	ST	STI	STP	N	KB	KGH	ALU	STG
x	x	50 x 1.5	10 / SK11 / 12 / 14 / 15 / 17	5	39	30	120	40	x	x	x	x			x	x
x	x	50 x 1.5	10 / SK11 / 12 / 14 / 15 / 17	6	39	30	120	38	x	x	x	x			x	x
x	x	50 x 2.8	10 / SK11 / 12 / 14 / 15 / 17	5	39	30	97	40					x	x		
x	x	60 x 2	10 / SK11 / 12 / 14 / 15 / 17	6	44	35	120	48	x	x	x					x
x		60.3 x 1.65	10 / SK11 / 12 / 14 / 15 / 17	6	44	35	120	48				x				x
x		63 x 3	10 / SK11 / 12 / 14 / 15 / 17	5	44	35	120	53					x	x		
x	x	80 x 2	10 / SK11 / 12 / 14 / 15 / 17	8	44	35	120	64	x	x	x	x				x
x	x	88.9 x 2.9	10 / SK11 / 12 / 14 / 15 / 17	8	44	35	150	73	x	x	x	x				x

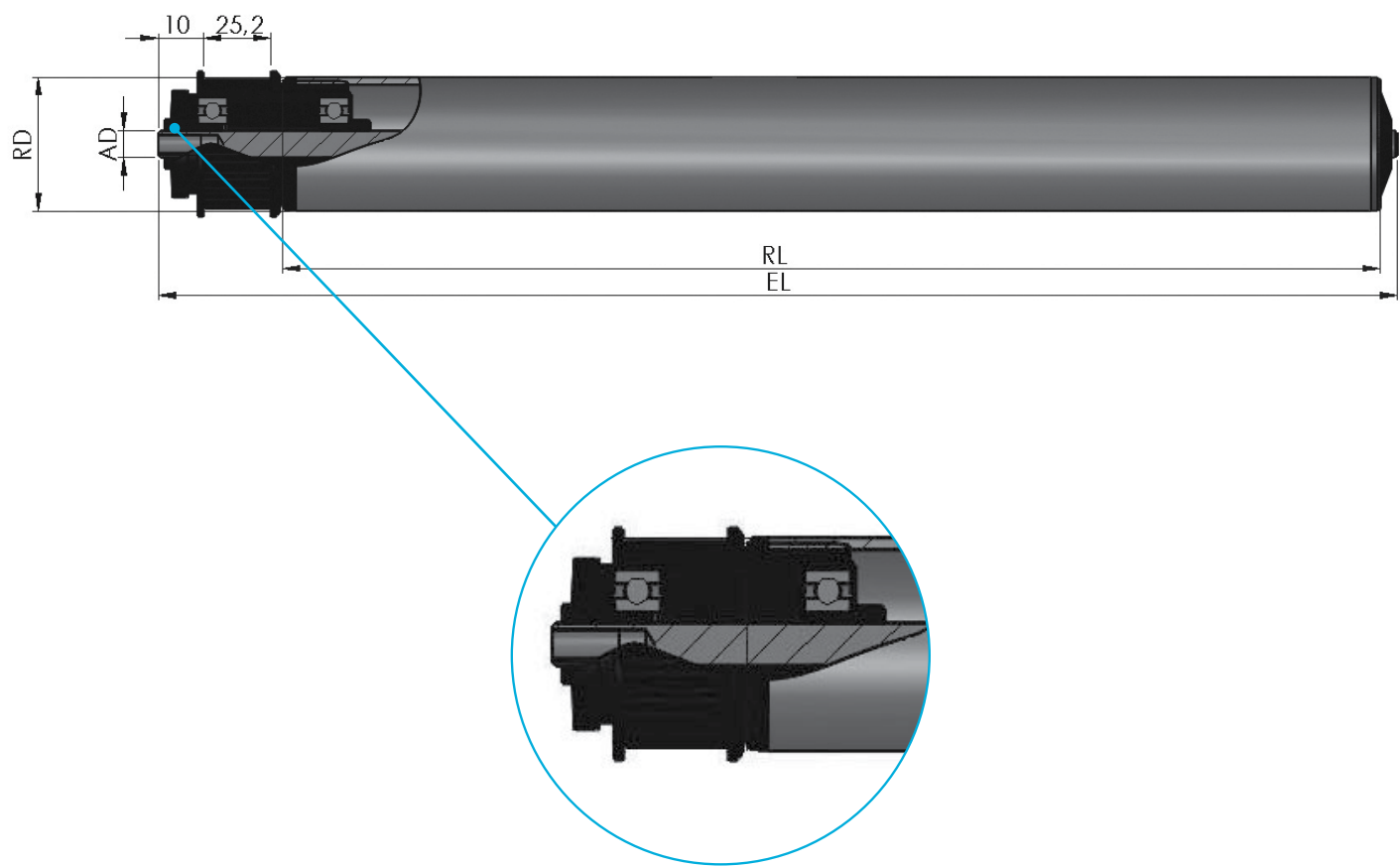
Axle type

bearing	axle-Ø mm	EL=	external thread	internal thread	spring axle	flat	spanner flat
TKL	10	RL +	19	7	7	7	7
	SK11	RL +			7	7	7
	12	RL +	21	7	7	7	7
	14	RL +	23	7	7	7	7
	15	RL +		7	7	7	7
	17	RL +	23	7	7	7	7
TRK	10	RL +	22	10	10	10	10
	SK11	RL +			10		
	12	RL +	24	10	10	10	10
	14	RL +	26	10	10	10	10
	15	RL +		10	10	10	10
	17	RL +	26	10	10	10	10

“The axle length and installation length change depending on the type of axle end finishing”

Order example

type	ATS-2	TKL	50x1.5	STI	38	39	30	A12	IGM8	EL=446	AL= x
type-roller											
bearing type											
tube-Ø and wall thickness											
tube surface											
ds											
a // EL-middle-corrugation											
b // middle-corrugation											
axle-Ø											
axle end finishing											
installation length											
axle length AL											



2Z-KU-fixed/accumulating

- Areas of use:**

 - for transporting lightweight products on a power-driven roller conveyor
 - for dry and dust-free environments

counter-bearing:

 - the type of bearing depends on the application select between TKL and TRK

Drive:

 - toothed belt made of plastic, with 20 teeth, t8 polychain
 - available as 2Z-KU-Fix: (fixed drive) or 2Z-KU-Accu: (accumulating drive)
- Properties:**

 - minimal running noises
 - faster conveying speeds
 - load capacity: max. 40 kg/roller
(Depending on the load limit of tube, bearing and axle; refer to the general information)


Optional:

 - variety of coatings are available
 - stainless steel bearing, tube and axle

Combination

counter-bearing											
TKL	TRK	tube-Ø	axle-Ø	ST	STI	STP	N	KB	KGH	ALU	STG
x	x	50 x 1.5	12 / 14	x	x	x	x			x	x
x	x	50 x 2	12 / 14	x	x	x	x				x
x		50 x 2.8	12 / 14					x	x		
x	x	60 x 2	12 / 14	x	x	x					x
x		60.3 x 1.65	12 / 14				x				x
x		63 x 3	12 / 14					x	x		
x	x	63.5 x 2.9	12 / 14	x	x						x
x	x	80 x 2	12 / 14	x	x	x	x				x
x		90 x 7	12 / 14					x	x		

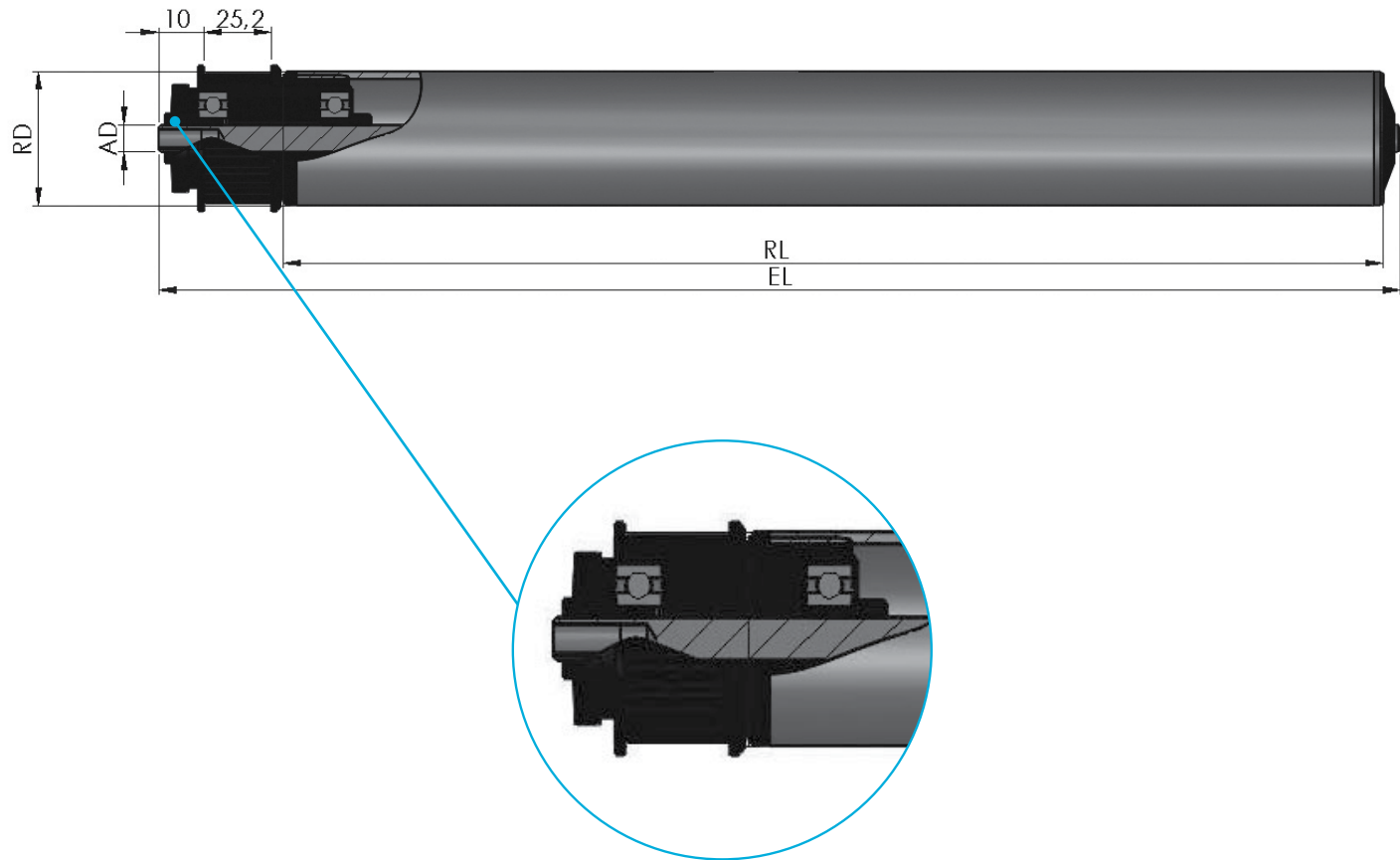
Axle type

counter-bearing	axle-Ø mm	EL=	 internal thread
TKL	12	RL +	46
	14	RL +	46
TRK	12	RL +	48
	14	RL +	48

 "Other axle end finishes are possible"

Order example

type	2Z-KU-fixed	TKL	50x2	STI	A12	IGM8	EL=446
rollers type							
type counter-bearing							
tube-Ø and wall thickness							
tube surface							
axle-Ø							
axle end finishing							
installation length							



2Z-ST-fixed/accumulating

- Areas of use:**

 - for transporting medium-weight products on a power-driven roller conveyor
 - for dry and dust-free environments

counter-bearing:

 - the type of bearing depends on the application
select between TKL and TRK

Drive:

 - toothed belt made of steel, with 20 teeth, t8 polychain
 - available as 2Z-ST-Fix: (fixed drive) or 2Z-ST-Accu: (accumulating drive)
- Properties:**

 - faster conveying speeds
 - load capacity: max. 100 kg/roller
(Depending on the load limit of tube, bearing and axle; refer to the general information)


Optional:

 - available with various coatings
 - antistatic
 - stainless steel bearing, tube and axle
 - for heated and cold storage applications

Combination

counter-bearing											
TKL	TRK	tube-Ø	axle-Ø	ST	STI	STP	N	KB	KGH	ALU	STG
x	x	50 x 1.5	12 / 14 / 15 / 17	x	x	x	x			x	x
x	x	50 x 2	12 / 14 / 15 / 17	x	x	x	x				x
x		50 x 2.8	12 / 14 / 15 / 17					x	x		
x	x	60 x 2	12 / 14 / 15 / 17	x	x	x					x
x		60.3 x 1.65	12 / 14 / 15 / 17				x				x
x		63 x 3	12 / 14 / 15 / 17					x	x		
x	x	63.5 x 2.9	12 / 14 / 15 / 17	x	x						x
x	x	80 x 2	12 / 14 / 15 / 17	x	x	x	x				x
x		90 x 7	12 / 14 / 15 / 17					x	x		

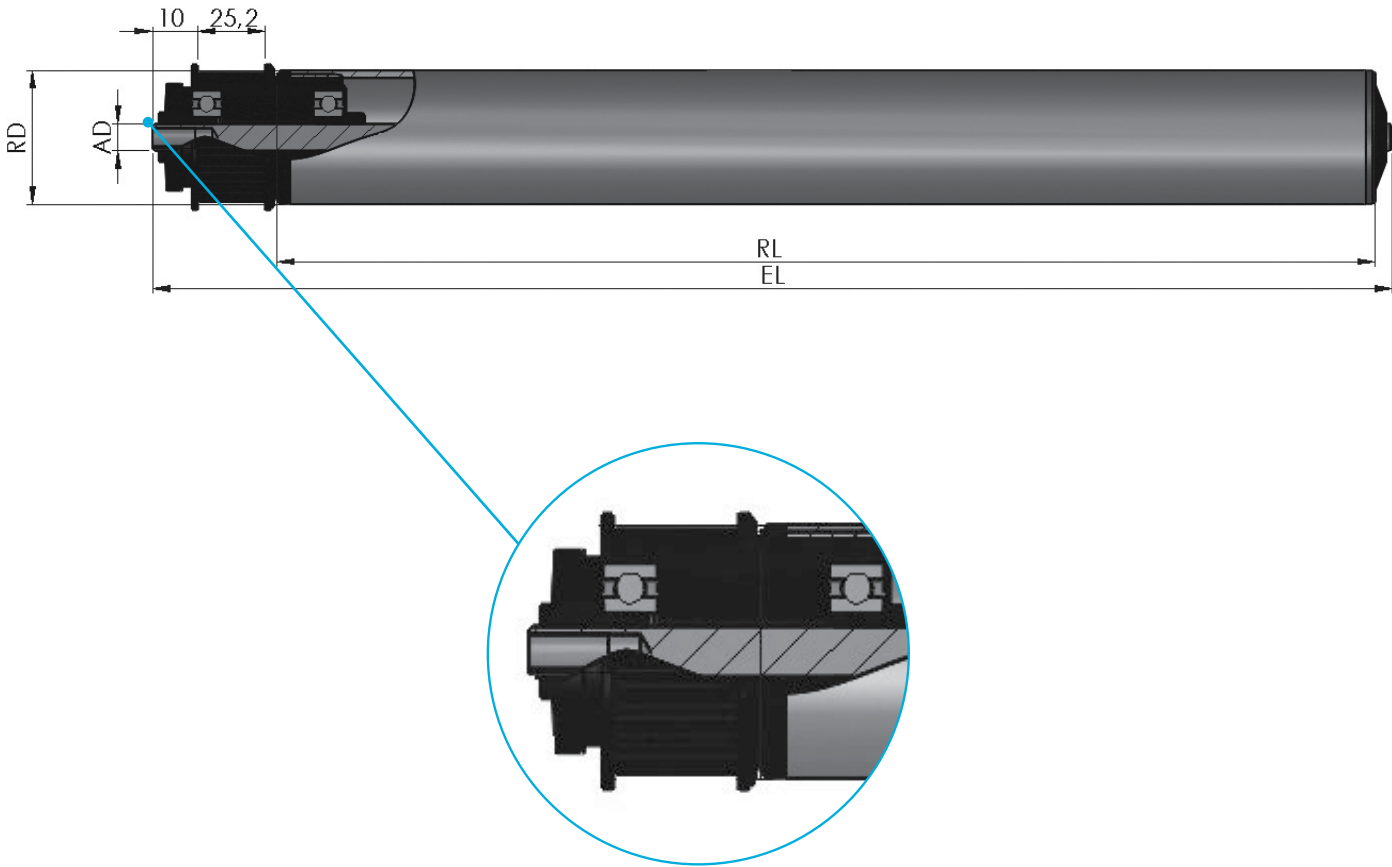
Axle type

counter-bearing	axle-Ø mm	EL=	 internal thread
TKL	12	RL +	46
	14	RL +	46
	15	RL +	46
	17	RL +	46
TRK	12	RL +	48
	14	RL +	48
	15	RL +	48
	17	RL +	48

 "Other axle end finishes are possible"

Order example

type	2Z-ST-accumulating	TKL	50x2	STI	A12	IGM8	EL=446
rollers type							
type counter-bearing							
tube-Ø and wall thickness							
tube surface							
axle-Ø							
axle end finishing							
installation length							



2Z-ST-welded


- Areas of use:
- for transporting medium-weight products on a power-driven roller conveyor
 - for dry and dust-free environments
- counter-bearing:
- the type of bearing depends on the application select between TKL and TRK
- Drive:
- toothed belt made of steel, with 20 teeth, T8 polychain

- Properties:
- faster conveying speeds
 - load capacity: max. 100 kg/roller
(Depending on the load limit of tube, bearing and axle; refer to the general information)
- Optional:
- available with various coatings
 - antistatic
 - stainless steel bearing, tube and axle
 - for heated and cold storage applications

Combination

counter-bearing											
TKL	TRK	tube-Ø	axle-Ø	ST	STI	STP	N	KB	KGH	ALU	STG
x	x	50 x 1.5	12 / 14 / 15 / 17	x	x	x	x			x	x
x	x	50 x 2	12 / 14 / 15 / 17	x	x	x	x				x
x		50 x 2.8	12 / 14 / 15 / 17					x	x		
x	x	60 x 2	12 / 14 / 15 / 17	x	x	x					x
x		60.3 x 1.65	12 / 14 / 15 / 17				x				x
x		63 x 3	12 / 14 / 15 / 17					x	x		
x	x	63.5 x 2.9	12 / 14 / 15 / 17	x	x						x
x	x	80 x 2	12 / 14 / 15 / 17	x	x	x	x				x
x		90 x 7	12 / 14 / 15 / 17					x	x		

Axle type

counter-bearing	axle-Ø mm	EL=	 internal thread
TKL	12	RL +	46
	14	RL +	46
	15	RL +	46
	17	RL +	46
TRK	12	RL +	48
	14	RL +	48
	15	RL +	48
	17	RL +	48

 "Other axle end finishes are possible"

Order example

type	2Z-ST-welded	TKL	50x2	STI	A12	IGM8	EL=446
rollers type							
type counter-bearing							
tube-Ø and wall thickness							
tube surface							
axle-Ø							
axle end finishing							
installation length							



Description:

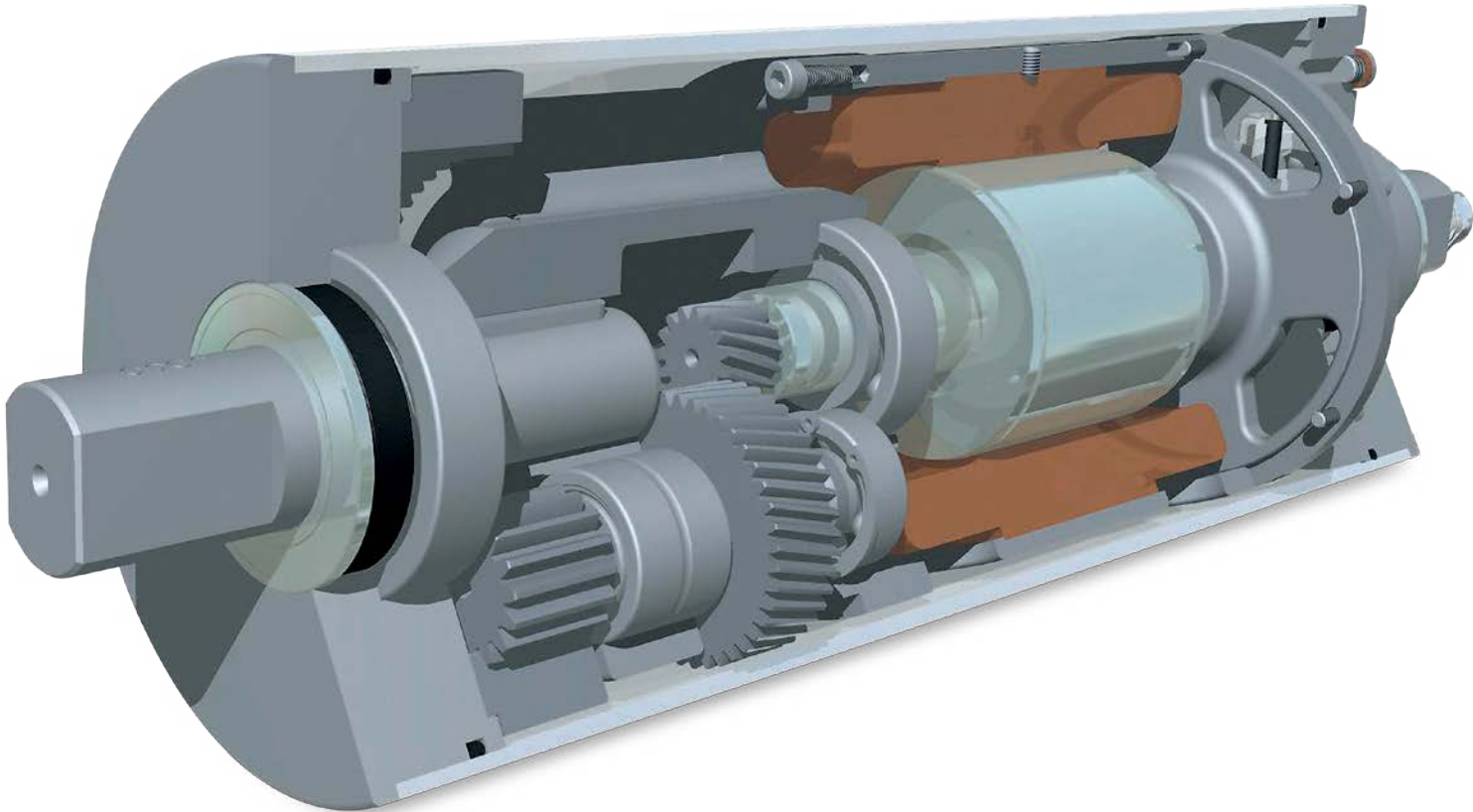
Drum motors are used for driving stationary or transportable conveyor belts to transport diverse types of bulk articles. They are also used in transportation systems without belts. Drum motors are being used for an increasing variety of drive applications because of their space-saving construction and good adaptability to varying operating conditions. They have been used successfully for decades in many different conveyor-based materials handling applications.

Depending on customer requirements, drum motors can also be produced with different rubber coatings.

The following data are required to process your request/order:

- drum diameter: from Ø 60 mm;
- drum shape: spherical, cylindrical;
- material: steel, stainless steel, aluminium, rubber
- size specifications: roller length, installation length, axle dimensions (incl. wrench size)
- power: speed, voltage, frequency
- a frequency inverter can be used for speed adjustments.
- protection class: IP65, IP66, IP67

drum motors	drum motors-Ø outside mm	drum motors-Ø center mm	min. drum length mm	min. power P2 KW	max. power P2 KW	min. belt speed m/s	max. belt speed m/s
TTM111 Ident No.: 0026045	112.5	113.5	280	0.075	0.55	0.09	3.47
TTM135 Ident No.: 0026046	135	136.5	310	0.09	0.75	0.05	1.01
TTM160 Ident No.: 0026047	160	161.5	320	0.09	0.75	0.06	1.19
TTM165 Ident No.: 0026048	164	165	425	0.37	1.5	0.19	2.57
TTM216 Ident No.: 0026049	213.5	216	450	0.37	3	0.25	2.2
TTM321 Ident No.: 0026050	318	321	680	1.5	7.5	0.48	3.28
TTM415 Ident No.: 0026051	413	415	750	3	15	0.6	2.17
TTM518 Ident No.: 0026052	515	518	850	4	22	0.51	2.14
TTM60 Ident No.: 0026053	61.5	62.5	365	0.03	0.08	0.09	1.9
TTM620 Ident No.: 0026054	618	620	850	7.5	22	0.77	2.56
TTM630 Ident No.: 0026055	626	630	950	30	55	1.25	4
TTM80 Ident No.: 0026056	78.5	79.5	330	0.06	0.12	0.11	2.57





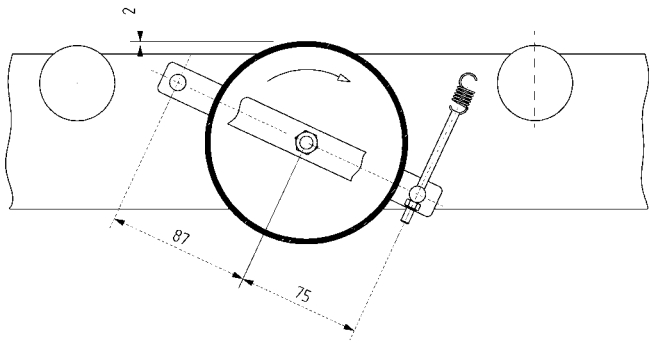
Description:
Braking rollers are built into the gravity-driven roller conveyor at regular intervals so that the conveyed goods maintain a constant speed. This can be done directly or indirectly. The selection and placement of brake rollers for your specific application depends on several factors.

A planetary (epicyclic) gear mechanism is built into the roller. Depending on the speed, this mechanism presses a centrifugal brake shoe against the inner side of the brake roller.

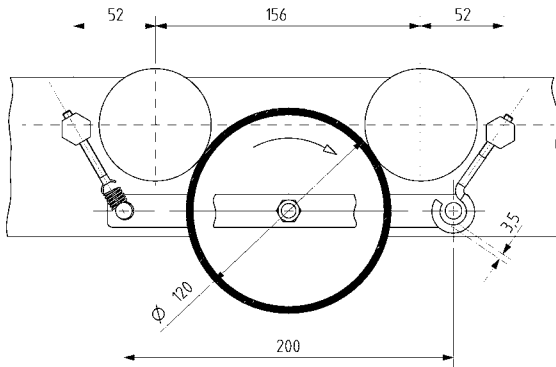
Our experience shows that one brake roller per load carrier should be added so that a constant conveying speed is maintained. When the brake rollers have been properly integrated, the conveying speed should be between 0.2 and 0.25 m/s. The conveying speed should not exceed 0.3 m/s. We recommend using flow tests on your application to determine the best gap between the brake rollers.

braking rollers	permissible pallet weight kg	braking	clip bolt
TBR 300 Ident No.: 0024654	300	direct, indirect	HS67, HS88
TBR 500 Ident No.: 0024655	500	direct, indirect	HS67, HS88
TBR 800 Ident No.: 0024657	800	direct, indirect	HS67, HS88
TBR 1,000 Ident No.: 0030268	1,000	direct, indirect	HS67, HS88
TBR 1200 Ident No.: 0024653	1,200	direct, indirect	HS67, HS88

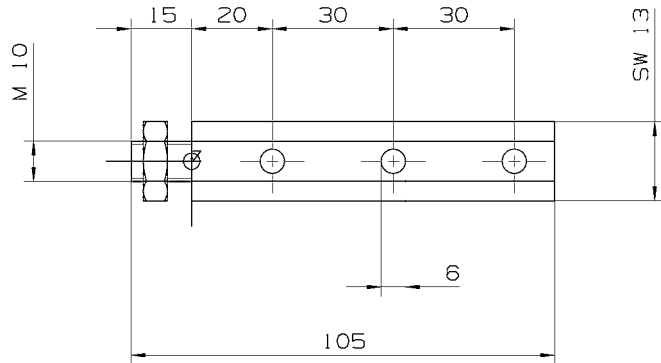
Direct braking



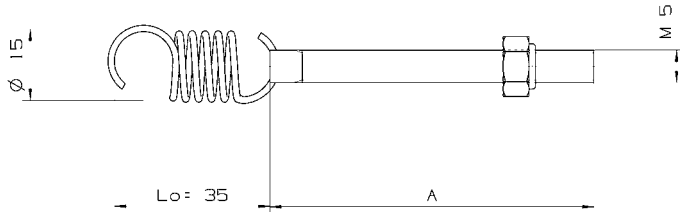
Indirect braking



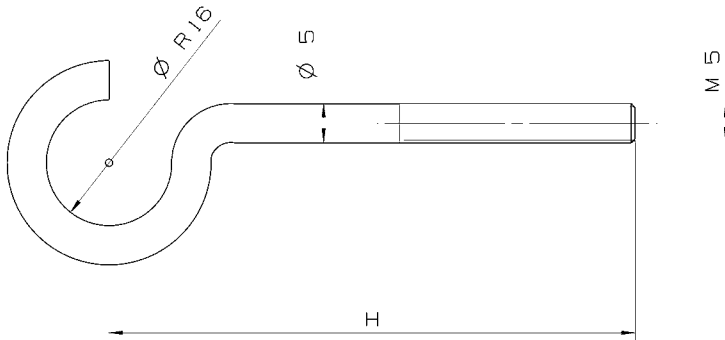
Suspension axle



Spring suspension



Clip bolt





- Description:**
- permitted for weights range from 80 to 1,400 k
 - brake carrier roller: Ø 80 mm
 - can be used down to 0° C ambient temperature

- Design of the support tube:**
- bright steel or galvanized steel
 - with rubber lining or 5 mm PVC tubing (when transporting steel or plastic plates)
 - with knurled tube (when transporting plastic plates)

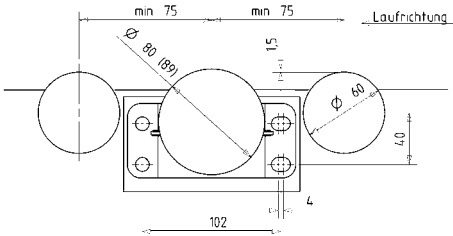
- Available types of holding bracket:**
- with rigid bracket: for braking in both directions
 - with free-wheel bracket for use with push-in roller tracks: for braking in one direction

braking roller	material of tube	holder execution
TBTS80-124 Ident No.: 0040200	bright steel or galvanized steel	rigid bracket
TBTS 80 Ident No.: 0040201	bright steel or galvanized steel	rigid bracket

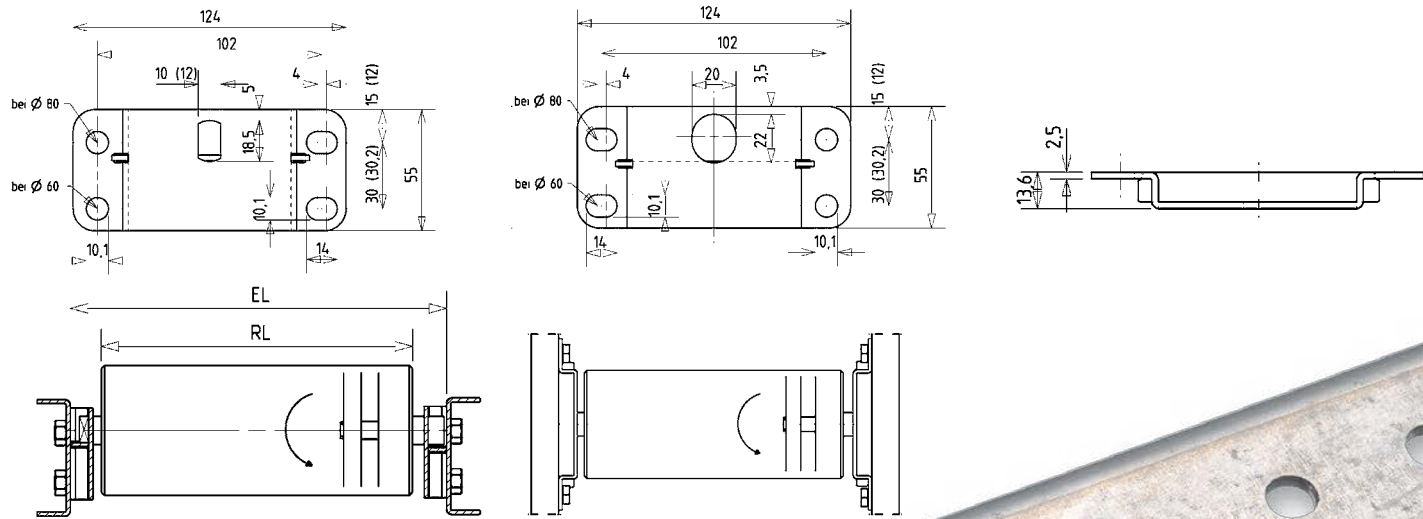
- Special version:**
- version for freezer usage: for temperatures down to -30° C (normal version can only be used to 0° C)

- Standard lengths:**
- 1,072 mm for transverse transport of EURO pallets
 - 872 mm for lengthwise transport of EURO pallets
 - 124 mm for pallet roller tracks (width version TBTS80-124)

Installation variant



Braking rollers



"We can also deliver customized lengths to match your requirements"



carrier rollers	tube-Ø mm	material of tube	axle-Ø mm	axle end finishing	roller lengthmm	Installation length mm	axle length mm
KUT50-20x1,5-KB-A8-FA-EL=200 Ident No.: 0034500	20	plastic blue	8	spring axle	195	200	220
KUT50-20x1,5-KB-A8-FA-EL=300 Ident No.: 0034501	20	plastic blue	8	spring axle	295	300	320
KUT50-20x1,5-KB-A8-FA-EL=400 Ident No.: 0034502	20	plastic blue	8	spring axle	395	400	420
KUT50-20x1,5-KB-A8-FA-EL=500 Ident No.: 0034503	20	plastic blue	8	spring axle	495	500	520

carrier rollers	tube-Ø mm	material of tube	axle-Ø mm	axle end finishing	roller length mm	Installation length mm	axle length mm
KUT50-30x1,8-KB-A8-FA-EL=200 Ident No.: 0034504	30	plastic blue	8	spring axle	195	200	220
KUT50-30x1,8-KB-A8-FA-EL=300 Ident No.: 0034505	30	plastic blue	8	spring axle	295	300	320
KUT50-30x1,8-KB-A8-FA-EL=400 Ident No.: 0034506	30	plastic blue	8	spring axle	395	400	420
KUT50-30x1,8-KB-A8-FA-EL=500 Ident No.: 0034507	30	plastic blue	8	spring axle	495	500	520

carrier rollers	tube-Ø mm	material of tube	axle-Ø mm	axle end finishing	roller length mm	Installation length mm	axle length mm
KUT50-40x2,3-KB-A8-FA-EL=200 Ident No.: 0034508	40	plastic blue	8	spring axle	195	200	220
KUT50-40x2,3-KB-A8-FA-EL=300 Ident No.: 0034509	40	plastic blue	8	spring axle	295	300	320
KUT50-40x2,3-KB-A8-FA-EL=400 Ident No.: 0034510	40	plastic blue	8	spring axle	395	400	420
KUT50-40x2,3-KB-A8-FA-EL=500 Ident No.: 0034511	40	plastic blue	8	spring axle	495	500	520

carrier rollers	tube-Ø mm	material of tube	axle-Ø mm	axle end finishing	roller length mm	Installation length mm	axle length mm
KUT100-50x2,8-KB-A8-FA-EL=200 Ident No.: 0034512	50	plastic blue	8	spring axle	193	200	220
KUT100-50x2,8-KB-A8-FA-EL=300 Ident No.: 0034513	50	plastic blue	8	spring axle	293	300	320
KUT100-50x2,8-KB-A8-FA-EL=400 Ident No.: 0034514	50	plastic blue	8	spring axle	393	400	420
KUT100-50x2,8-KB-A8-FA-EL=500 Ident No.: 0034515	50	plastic blue	8	spring axle	493	500	520
KUT100-50x2,8-KB-A8-FA-EL=600 Ident No.: 0034516	50	plastic blue	8	spring axle	593	600	620



carrier rollers	tube-Ø mm	material of tube	axle-Ø mm	axle end finishing	roller length- mm	Installation length mm	axle length mm
TRG-50x1,5-STI-A12-IGM8-EL=200 Ident No.: 0022776	50	steel galvanized	12	internal thread	194	200	200
TRG-50x1,5-STI-A12-IGM8-EL=300 Ident No.: 0022777	50	steel galvanized	12	internal thread	294	300	300
TRG-50x1,5-STI-A12-IGM8-EL=400 Ident No.: 0022778	50	steel galvanized	12	internal thread	394	400	400
TRG-50x1,5-STI-A12-IGM8-EL=500 Ident No.: 0022779	50	steel galvanized	12	internal thread	494	500	500
TRG-50x1,5-STI-A12-IGM8-EL=600 Ident No.: 0022780	50	steel galvanized	12	internal thread	594	600	600

carrier rollers	tube-Ø mm	material of tube	axle-Ø mm	axle end finishing	roller length mm	Installation length mm	axle length mm
TRG-60x2-STI-A12-IGM8-EL=200 Ident No.: 0022781	60	steel galvanized	12	internal thread	194	200	200
TRG-60x2-STI-A12-IGM8-EL=300 Ident No.: 0022782	60	steel galvanized	12	internal thread	294	300	300
TRG-60x2-STI-A12-IGM8-EL=400 Ident No.: 0022783	60	steel galvanized	12	internal thread	394	400	400
TRG-60x2-STI-A12-IGM8-EL=500 Ident No.: 0022784	60	steel galvanized	12	internal thread	494	500	500
TRG-60x2-STI-A12-IGM8-EL=600 Ident No.: 0022785	60	steel galvanized	12	internal thread	594	600	600

carrier rollers	tube-Ø mm	material of tube	axle-Ø mm	axle end finishing	roller length mm	Installation length mm	axle length mm
TRG-80x2-STI-A12-IGM8-EL=200 Ident No.: 0022786	80	steel galvanized	12	internal thread	190	200	200
TRG-80x2-STI-A12-IGM8-EL=300 Ident No.: 0022787	80	steel galvanized	12	internal thread	290	300	300
TRG-80x2-STI-A12-IGM8-EL=400 Ident No.: 0022788	80	steel galvanized	12	internal thread	390	400	400
TRG-80x2-STI-A12-IGM8-EL=500 Ident No.: 0022789	80	steel galvanized	12	internal thread	490	500	500
TRG-80x2-STI-A12-IGM8-EL=600 Ident No.: 0022790	80	steel galvanized	12	internal thread	590	600	600
TRG-80x2-STI-A12-IGM8-EL=700 Ident No.: 0022791	80	steel galvanized	12	internal thread	790	800	800



*"All carrier rollers are available
directly from stock"*



carrier rollers	tube-Ø mm	material of tube	axle-Ø mm	axle end finishing	roller length- mm	Installati- on length mm	axle length mm
TRST63,5-20-200 Ident No.: 0025876	63.5	steel	20	spanner flat	200	206	226
TRST63,5-20-250 Ident No.: 0025877	63.5	steel	20	spanner flat	250	256	276
TRST63,5-20-315 Ident No.: 0025878	63.5	steel	20	spanner flat	315	321	341
TRST63,5-20-380 Ident No.: 0025879	63.5	steel	20	spanner flat	380	386	406
TRST63,5-20-465 Ident No.: 0025880	63.5	steel	20	spanner flat	465	471	491
TRST63,5-20-500 Ident No.: 0025881	63.5	steel	20	spanner flat	500	506	532
TRST63,5-20-600 Ident No.: 0025883	63.5	steel	20	spanner flat	600	606	632
TRST63,5-20-750 Ident No.: 0025884	63.5	steel	20	spanner flat	750	756	782
TRST63,5-20-950 Ident No.: 0025885	63.5	steel	20	spanner flat	950	956	982
TRST63,5-20-1150 Ident No.: 0025875	63.5	steel	20	spanner flat	1,150	1,156	1,182
TRST89-20-200 Ident No.: 0025887	89	steel	20	spanner flat	200	206	226
TRST89-20-250 Ident No.: 0025888	89	steel	20	spanner flat	250	256	276
TRST89-20-315 Ident No.: 0025889	89	steel	20	spanner flat	315	321	341
TRST89-20-380 Ident No.: 0025890	89	steel	20	spanner flat	380	386	406
TRST89-20-465 Ident No.: 0025891	89	steel	20	spanner flat	465	471	491
TRST89-20-500 Ident No.: 0025892	89	steel	20	spanner flat	500	506	532
TRST89-20-530 Ident No.: 0025894	89	steel	20	spanner flat	530	536	556
TRST89-20-600 Ident No.: 0025895	89	steel	20	spanner flat	600	606	632
TRST89-20-750 Ident No.: 0025900	89	steel	20	spanner flat	750	756	782
TRST89-20-950 Ident No.: 0025901	89	steel	20	spanner flat	950	956	982
TRST89-20-1150 Ident No.: 0025886	89	steel	20	spanner flat	1,150	1,156	1,182
TRST108-20-200 Ident No.: 0025866	108	steel	20	spanner flat	200	206	226
TRST108-20-250 Ident No.: 0025867	108	steel	20	spanner flat	250	256	276

TRST108-20-315 Ident No.: 0025868	108	steel	20	spanner flat	315	321	341
TRST108-20-380 Ident No.: 0025869	108	steel	20	spanner flat	380	386	406
TRST108-20-465 Ident No.: 0025870	108	steel	20	spanner flat	465	471	491
TRST108-20-500 Ident No.: 0025871	108	steel	20	spanner flat	500	506	532
TRST108-20-600 Ident No.: 0025872	108	steel	20	spanner flat	600	606	632
TRST108-20-750 Ident No.: 0025873	108	steel	20	spanner flat	750	756	782
TRST108-20-950 Ident No.: 0025874	108	steel	20	spanner flat	950	956	982
TRST108-20-1150 Ident No.: 0025865	108	steel	20	spanner flat	1,150	1,156	1,182

tape threading path rollers	tube-Ø mm	material of tube	axle-Ø mm	axle end finishing	roller length mm	axle length mm
BRB50-12 Ident No.: 0015493	50	steel	12	external thread	100	145
BRB60-12 Ident No.: 0015494	60	steel	12	external thread	100	145
BRB63,5-20 Ident No.: 0015495	63.5	steel	20	external thread	100	145
BRB80-20 Ident No.: 0015496	80	steel	20	external thread	100	145
BRB89-20 Ident No.: 0015497	89	steel	20	external thread	100	145
BRB108-20 Ident No.: 0015491	108	steel	20	external thread	100	145



**“All carrier rollers are available
directly from stock”**



type A support rings	tube-Ø mm	outside-Ø mm	inside-Ø mm	width mm
ST-RING-63,5-108X25-A Ident No.: 0024162	63.5	108	60	25
ST-RING-63,5-133X25-A Ident No.: 0024164	63.5	133	60	25
ST-RING-89-133X30-A Ident No.: 0024166	89	133	85	30
ST-RING-89-159X30-A Ident No.: 0024169	89	159	85	30
ST-RING-89-180X35-A Ident No.: 0024171	89	180	105	35
ST-RING-108-159X35-A Ident No.: 0024159	108	159	105	35
ST-RING-108-180X40-A Ident No.: 0024161	108	180	105	40



type B support rings	tube-Ø mm	outside-Ø mm	inside-Ø mm	width mm
ST-RING-63,5-108X40-B Ident No.: 0024163	63.5	108	60	40
ST-RING-63,5-133X40-B Ident No.: 0024165	63.5	133	60	40
ST-RING-89-133X40-B Ident No.: 0024167	89	133	85	40
ST-RING-89-159X40-B Ident No.: 0024170	89	159	85	40
ST-RING-108-159X50-B Ident No.: 0024160	108	159	105	50



buffer rings	tube-Ø mm	outside-Ø mm	inside-Ø mm	width mm
PUF-RING-63,5-89X25 Ident No.: 0022744	63.5	89	60	25
PUF-RING-63,5-108X30 Ident No.: 0022740	63.5	108	60	30
PUF-RING-63,5-133X30 Ident No.: 0022742	63.5	133	60	30
PUF-RING-89-133X35 Ident No.: 0022745	89	133	85	35
PUF-RING-89-159X35 Ident No.: 0022748	89	159	85	35
PUF-RING-89-180X35 Ident No.: 0022749	89	180	85	35
PUF-RING-108-159X40 Ident No.: 0022733	108	159	105	40
PUF-RING-108-180X40 Ident No.: 0022734	108	180	105	40

flanges	tube-Ø mm	outside-Ø mm	flange version
SP50-70 Ident No.: 0023912	50	70	form A
SP60-110 Ident No.: 0023913	60	110	form B
SP80-150 Ident No.: 0023914	80	150	form B
SP89-150 Ident No.: 0023915	89	150	form B



guiding disc	tube-Ø mm	outside-Ø mm	width mm	material thickness mm
BRS60-110 Ident No.: 0032437	60	110	14	2.5
BRS63,5-130 Ident No.: 0025831	63.5	130	14	2.5
BRS80-130 Ident No.: 0015500	80	130	14	2.5
BRS80-150 Ident No.: 0032438	80	150	14	2.5
BRS89-150 Ident No.: 0015501	89	150	14	2.5



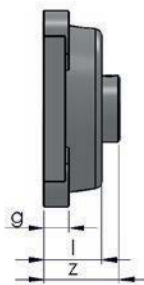
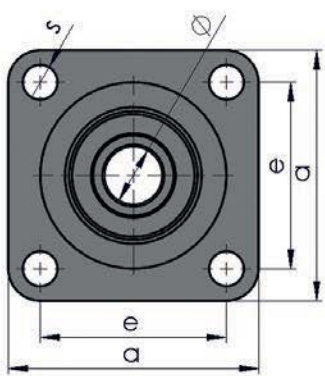


cover tubing	tube-Ø mm	material thickness mm	tubing material
COVER TUBING-30x2 Ident No.: 0027180	30	2	PVC approx. 63° shore A, RAL 7001, silver-grey
COVER TUBING-40x2 Ident No.: 0023763	40	2	PVC approx. 63° shore A, RAL 7001, silver-grey
COVER TUBING-50x2 Ident No.: 0023764	50	2	PVC approx. 63° shore A, RAL 7001, silver-grey
COVER TUBING-50x3 Ident No.: 0025699	50	3	PVC approx. 63° shore A, RAL 7001, silver-grey
COVER TUBING-50x5 Ident No.: 0039948	50	5	PVC approx. 63° shore A, RAL 7001, silver-grey
COVER TUBING-60x2 Ident No.: 0023765	60	2	PVC approx. 63° shore A, RAL 7001, silver-grey
COVER TUBING-60x3 Ident No.: 0025700	60	3	PVC approx. 63° shore A, RAL 7001, silver-grey
COVER TUBING-60x5 Ident No.: 0031856	60	5	PVC approx. 63° shore A, RAL 7001, silver-grey
COVER TUBING-80x2 Ident No.: 0023766	80	2	PVC approx. 63° shore A, RAL 7001, silver-grey
COVER TUBING-80x3 Ident No.: 0025701	80	3	PVC approx. 63° shore A, RAL 7001, silver-grey
COVER TUBING-80x5 Ident No.: 0034359	80	5	PVC approx. 63° shore A, RAL 7001, silver-grey
COVER TUBING-89x2 Ident No.: 0023767	89	2	PVC approx. 63° shore A, RAL 7001, silver-grey
COVER TUBING-89x3 Ident No.: 0027891	89	3	PVC approx. 63° shore A, RAL 7001, silver-grey
COVER TUBING-89x5 Ident No.: 0031855	89	5	PVC approx. 63° shore A, RAL 7001, silver-grey
COVER TUBING-108x3 Ident No.: 0031864	108	3	PVC approx. 63° shore A, RAL 7001, silver-grey
COVER TUBING-108x5 Ident No.: 0031837	108	5	PVC approx. 63° shore A, RAL 7001, silver-grey

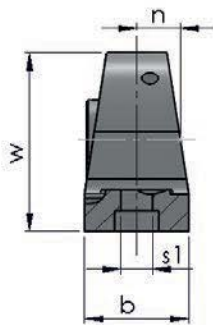
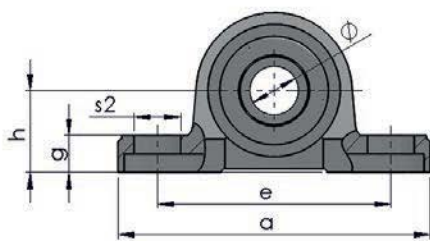


shrink tubing	tube-Ø mm	material thickness mm	tubing material
SHRINK TUBING-50 Ident No.: 0023770	50	1.5	PVC approx. 94° shore A, RAL 7001, silver-grey
SHRINK TUBING-60 Ident No.: 0023771	60	1.5	PVC approx. 94° shore A, RAL 7001, silver-grey
SHRINK TUBING-80 Ident No.: 0023895	80	1.5	PVC approx. 94° shore A, RAL 7001, silver-grey
SHRINK TUBING-89 Ident No.: 0023772	89	1.5	PVC approx. 94° shore A, RAL 7001, silver-grey

flange bearing	inside -Ø mm	a mm	e mm	i mm	l mm	s mm	z mm	g mm
UCF204 Ident No.: 0029027	20	86	64	15	25.5	12	33.3	12
UCF205 Ident No.: 0029028	25	95	70	16	27	12	35.7	14
UCF206 Ident No.: 0029029	30	108	83	18	31	12	40.2	14
UCF207 Ident No.: 0029030	35	117	92	19	34	14	44.4	16
UCF208 Ident No.: 0029031	40	130	102	21	36	16	51.2	16
UCF209 Ident No.: 0029032	45	137	105	22	38	16	52.2	18
UCF210 Ident No.: 0029033	50	143	111	22	40	16	54.6	18
UCF211 Ident No.: 0029034	55	162	130	25	43	19	58.4	20
UCF212 Ident No.: 0029035	60	175	143	29	48	19	68.7	20



pedestal bearing	inside -Ø mm	a mm	e mm	h mm	b mm	s1 mm	s2 mm	w mm	g mm
UCP204 Ident No.: 0029018	20	127	96	33.3	38	19	13	65	13
UCP205 Ident No.: 0029019	25	140	105	36.5	38	19	13	70	13
UCP206 Ident No.: 0029020	30	165	121	42.9	48	21	17	83	15
UCP207 Ident No.: 0029021	35	167	127	47.6	48	21	17	92	16
UCP208 Ident No.: 0029022	40	184	137	49.2	54	21	17	98	17
UCP209 Ident No.: 0029023	45	190	146	54	54	21	17	106	17
UCP210 Ident No.: 0029024	50	206	159	57.2	60	22	20	113	19
UCP211 Ident No.: 0029025	55	219	171	63.5	60	22	20	125	19
UCP212 Ident No.: 0029026	60	241	184	69.8	70	25	20	138	22





round belt wheels	axle-Ø mm	bearing surface-Ø mm	outside-Ø mm	width mm
ROUND BELT WHEEL-29X25,3 Ident No.: 0023651	25.3	29	48	30
ROUND BELT WHEEL-40,5x35,3 Ident No.: 0026928	35.3	40.5	60	32



toothed belt wheel	toothed belt type	length mm	width mm	number of teeth	pitch mm
Z-8MX288 Ident No.: 0017745	8M	288	11.2	36	64
Z-8MX352 Ident No.: 0017746	8M	352	11.2	44	96
Z-8MX416 Ident No.: 0017747	8M	416	11.2	52	128
Z-8MX480 Ident No.: 0017748	8M	480	11.2	60	160
Z-8MX544 Ident No.: 0017749	8M	544	11.2	68	192
Z-8MX608 Ident No.: 0017750	8M	608	11.2	76	224
Z-8MX640 Ident No.: 0017751	8M	640	11.2	80	240