ROLLON®

BY TIMKEN

Curviline

TO SUPPORT YOU, WE DESIGN AND PRODUCE

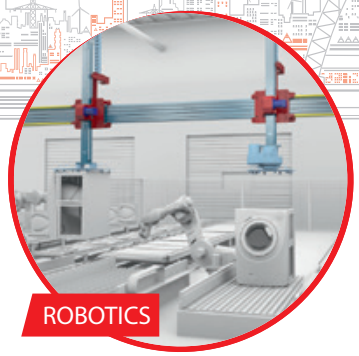
An industrialized process with various levels of customization

For over 45 years, Rollon has adopted an approach entailing responsibility and ethics in the design and production of our linear motion solutions for different industrial sectors. The reliability of an international technology group has now been combined with the availability of a local support and service network

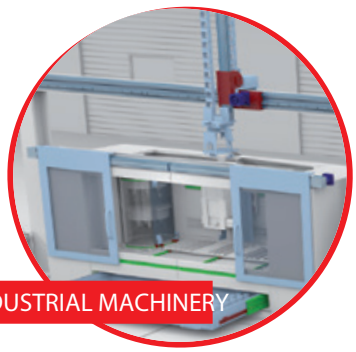
VALUES

Rollon's goal is to help our clients become more competitive in their markets through technological solutions, design simplification, productivity, reliability, duration, and low maintenance.

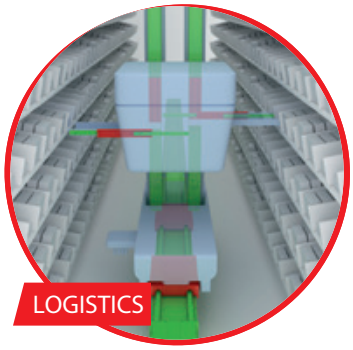
PERFORMANCE



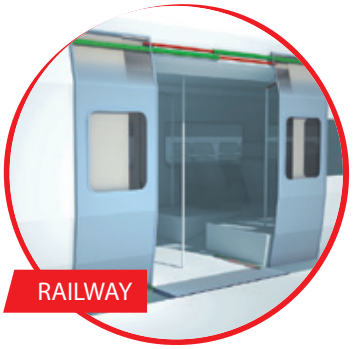
ROBOTICS



INDUSTRIAL MACHINERY



LOGISTICS



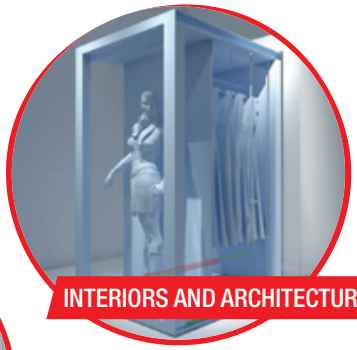
RAILWAY

COLLABORATION

High-level technical consulting and cross-competence allow us to identify the needs of our clients and transform them into guidelines for continuous exchange, while**our strong specialization in the different industrial sectors becomes an factor in developing projects and innovative applications.**

Rollon takes on the task of design and development of linear motion solutions, taking care of everything for our customers, so that they can concentrate on their core business. **We offer everything from individual components to specifically designed, mechanically integrated systems: the quality of our applications is an expression of our technology and competence.**

SOLUTIONS APPLICATIONS



INTERIORS AND ARCHITECTURE

MEDICAL

SPECIAL VEHICLES

AERONAUTICS

DIVERSIFIED LINEAR SOLUTIONS FOR EVERY APPLICATION REQUIREMENT

Linear and telescopic rails

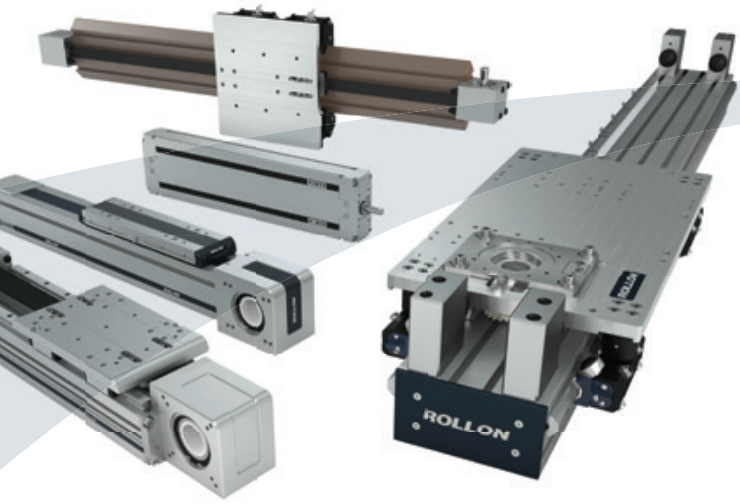
Linear Line

Linear and curved rails with ball and roller bearings, with hardened raceways, high load capacity, self-alignment, and capable of working in dirty environments.

Telescopic Line

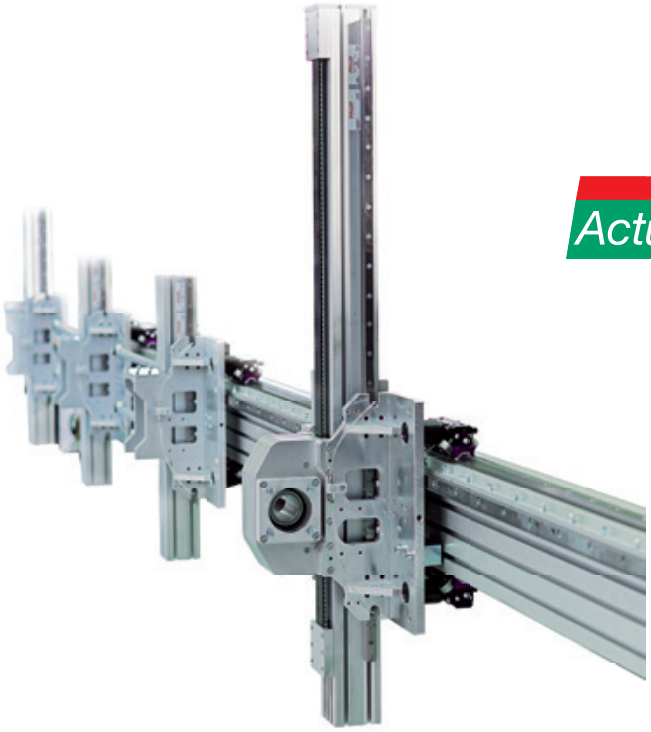
Telescopic rails with ball and roller bearings, with hardened raceways, high load capacities, low bending, resistant to shocks and vibrations. For partial, total or extended extraction up to 200% of the length of the guide.

Linear actuators and automation systems



Actuator Line

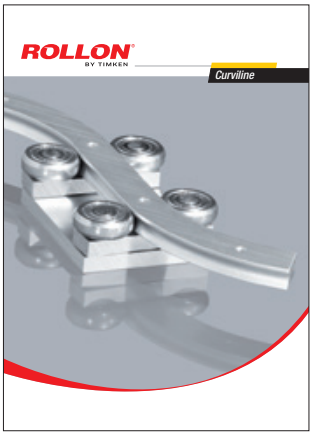
Linear actuators with different rail configurations and transmissions, available with belt, screw, or rack and pinion drives for different needs in terms of precision and speed. Rails with bearings or ball recycle systems for different load capacities and critical environments.



Actuator System Line

Integrated actuators for industrial automation, used in applications in several industrial sectors: automated industrial machinery, precision assembly lines, packaging lines and high speed production lines. The Actuator Line evolves to satisfy the requests of our most discerning clients.

Curviline



Product explanation

Curviline are curvilinear rails for constant and variable radii

Fig. 1

Curviline is the name of the curvilinear rail product family that is used for all non-linear special movements. Rails with constant or variable radii may be specified according to customer requirements, resulting in a highly flexible, economical solution. Curviline is available in two rail widths.
The use of standard radii is recommended. All non-standard rail layouts and radii are possible as custom products, however extra lead time may result.

The most important characteristics:

- Straight and curved sections in one continuos rail is possible
- Sliders with four rollers arranged in pairs maintain the preload over the entire rail length
- Custom production according to customer requirements
- Also available in stainless steel

Preferred areas of application of the Curviline product family:

- Packaging machines
- Railway car interior doors
- Special extensions
- Shipbuilding (interior doors)
- Food industry

Constant radii

The layout of CKR guide rails corresponds to a partial section of a complete circle.

Fig. 2

Variable radii

CVR curvilinear rail is a combination of variable radii and straight sections.

Fig. 3

Straight rail

The linear rail Curviline is also available in its straight version.

Fig. 4

Slider

The carriage maintains the desired preload over the entire rail layout. Pivoting roller mounts coupled with concentric and eccentric rollers allows for a smooth operation over complex rail layouts.

Fig. 5

Technical data

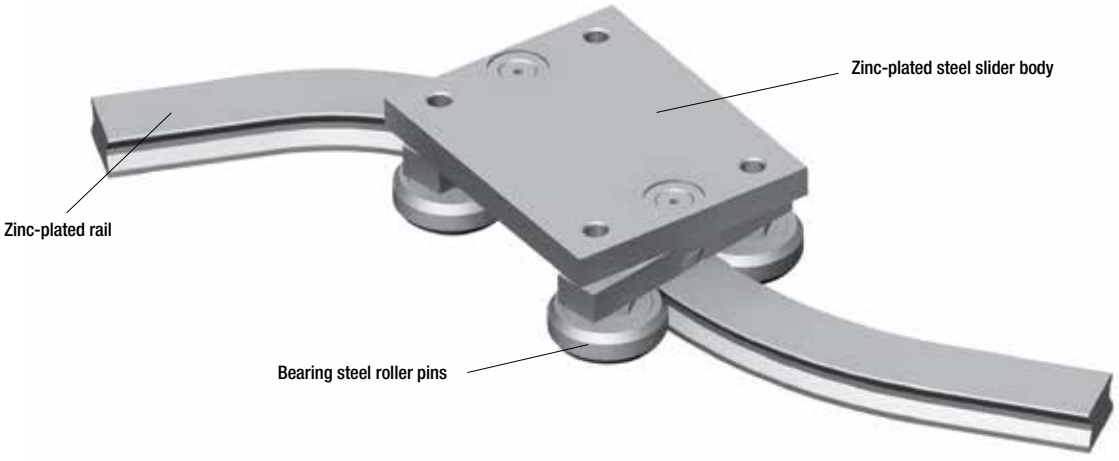


Fig. 6

Performance characteristics:

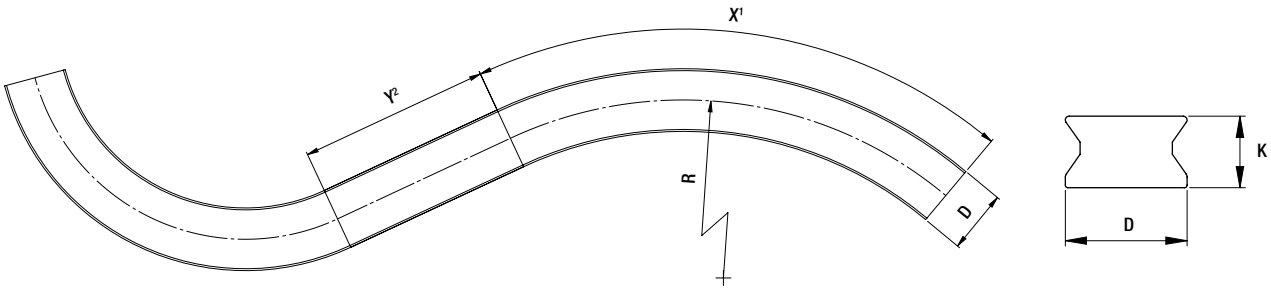
- Available rail widths: CKR01/CVR01: 16.5 mm (0.65 in) and CKR05/CVR05: 23 mm (0.91 in)
- Max. slider operating speed on the rail: 1.5 m/s (59 in/s) (depending on application)
- Max. acceleration: 2 m/s² (78 in/s²) (depending on application)
- Max. effective length of the rail: 3,240 mm (127.56 in)
- Max. traverse: CCT08: 3,170 mm (124.8 in) and CCT11: 3,140 mm (123.62 in)
- Minimum radius for stainless steel version and non-hardened version 120 mm
- Minimum radius for version with tempered raceways: 300 mm for section 01, 400 mm for size 05 For non-standard radii, please contact Rollon technical support.
- Radius tolerance +/- 0.5 mm (0.02 in), angle tolerance +/- 1°
- Temperature range: -20 °C to +80 °C (-4 °F to +176 °F)
- Rail and runner electrolytic zinc-plated and passivated (Rollon Aloy); increased anticorrosive protection on request (see pg. CL-12 Anticorrosive protection)
- Rail material: C43, AISI316L for the stainless steel version
- Slider body material: Fe360, AISI316L for the stainless steel version
- Radial ball bearing roller material: 100Cr6, AISI440 for the stainless steel version
- Rollers are lubricated for life

Remarks:

- With a simple adjustment of the eccentric roller (denoted with a marking on the bottom of the roller), the slider preload can be set to desired preload, including clearance.
- The recommended hole pitch is 80 mm (3.15 in) on the extended length
- Please indicate the precise rail layout and the desired hole pattern in a drawing
- Indicate if the design is a right or left version when ordering
- Joints are possible in straight sections. For more information, please contact Rollon technical support.
- Resulting moment loads must be absorbed through the use of two sliders. For more information, please contact Rollon technical support.

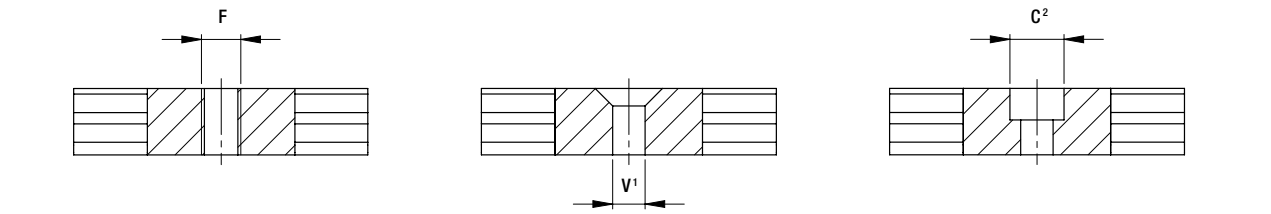
Product dimensions

Rails with constant/variable radii with tempered raceways



¹ The max. angle (X) is dependent on the radius
² For curved linear rails with variable radius, there must always be a straight section (Y) between two successive curved sections. Refer to tab.18 on pag. CL-15 to define the minimum length required for the straight section (Y).

Fig. 7



¹ Fixing holes (V) for countersunk head screws according to DIN 7991
² Fixing holes (C) for socket cap screws according to DIN 912

Fig. 8

Type	D [mm]	K [mm]	F	C²	V¹	X	Standard radii [mm]	Y [mm]	Weight [kg/m]
CKRH01 CVRH01	16.5	10	up to M6	up to M5	up to M5	dependent on radius	300* - 400 - 500 - 600 - 700 - 800 - 900 - 1000	min. 70	1.2
CKRH05 CVRH05	23	13.5	up to M8	up to M6	up to M6				2.2

* Only for size 01

Tab. 1

Please indicate the precise rail layout and the desired hole pattern in a drawing. We recommend 80 mm (3.15 in) on the extended length as a gage for the hole pattern.

Non-standard radii are possible as special products. For more information on rail layouts, radii and hole patterns, please contact Rollon Technical Support.

Slider

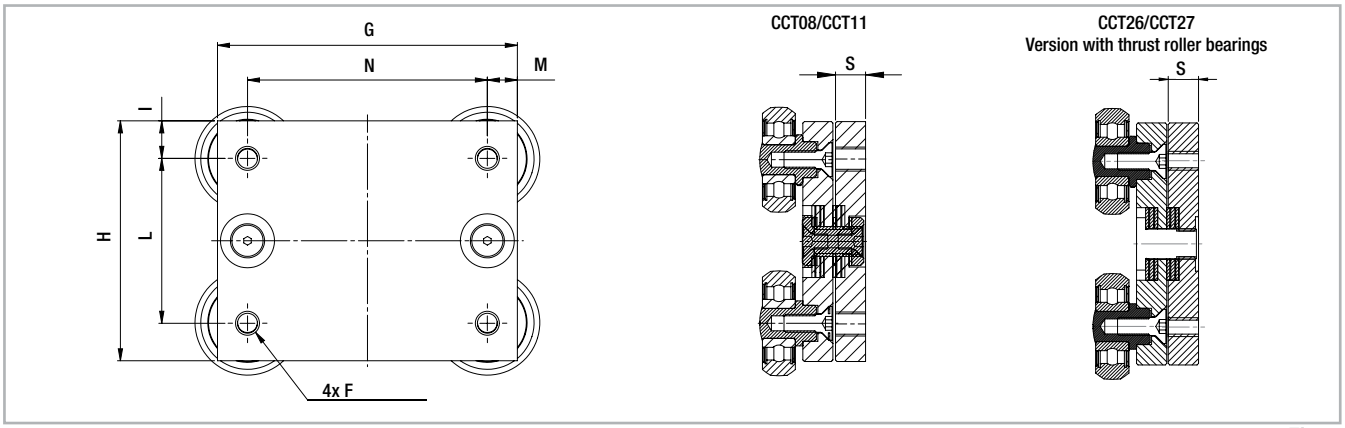


Fig. 9

Type	G [mm]	H [mm]	I [mm]	L [mm]	M [mm]	N [mm]	S [mm]	F	Weight [kg]
CCT08/CCT26	70	50	10	30	10	50	10	M5	0.45
CCT11/CCT27	100	80	12.5	55	10	80	10	M8	1.1

Tab. 2

Mounted sliders and rails

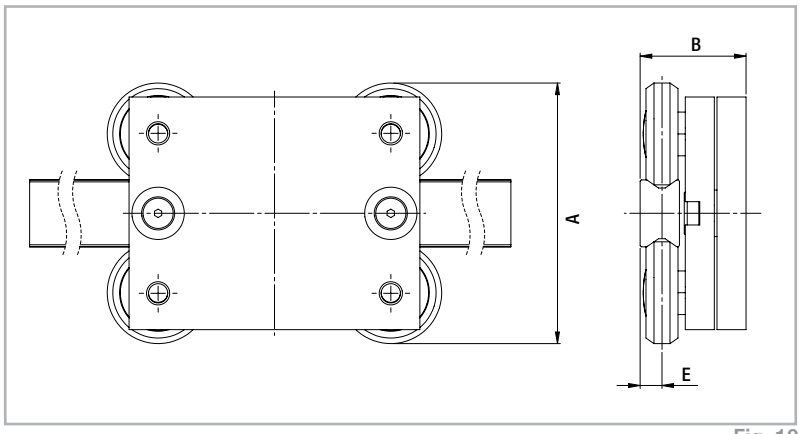


Fig. 10

Configuration	A [mm]	B [mm]	E [mm]
CKRH01-CCT08 CVRH01-CCT08	60	32.3	5.7
CKRH01-CCT26 CVRH01-CCT26	60	32	5.7
CKRH05-CCT11 CVRH05-CCT11	89.5	36.4	7.5
CKRH05-CCT27 CVRH05-CCT27	89.5	36	7.5

Tab. 3

Load capacities

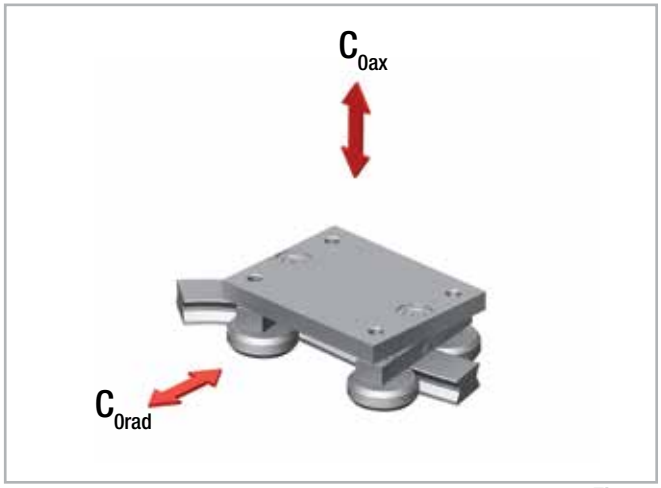


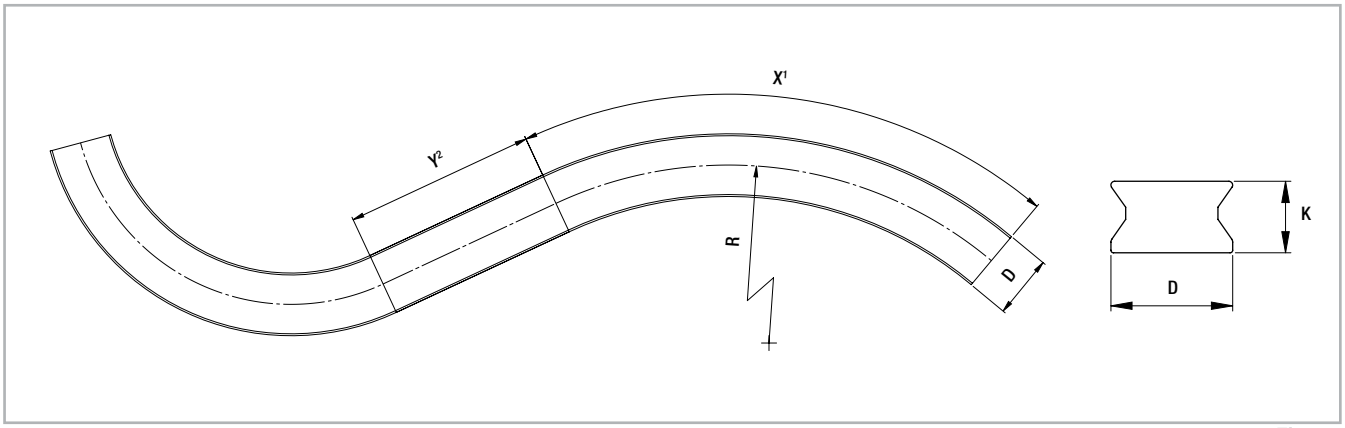
Fig. 11

Slider type	Load capacities	
	C_{0ax} [N]	C_{0rad} [N]
CKRH01-CCT08/CCT26 CVRH01-CCT08/CCT26	592	980
CKRH05-CCT11/CCT27 CVRH05-CCT11/CCT27	1459	2475

Resulting moment loads must be absorbed through the use of two sliders

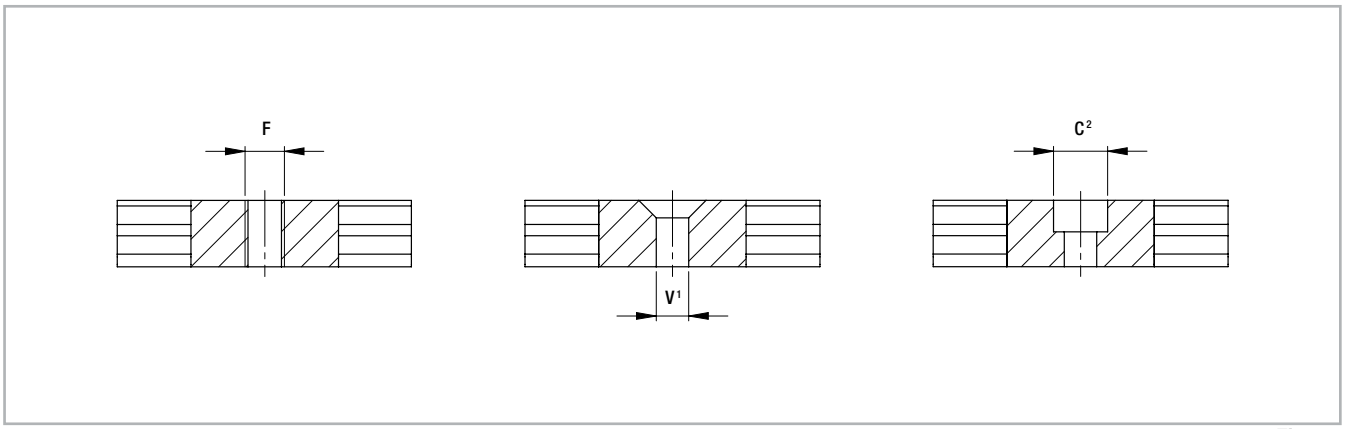
Tab. 4

Rails with constant/variable radii in carbon steel



[1] The max. angle (X) is dependent on the radius
[2] For curved linear rails with variable radius, there must always be a straight section (Y) between two successive curved sections.
Refer to tab.18 on pag. CL-15 to define the minimum length required for the straight section (Y).

Fig. 12



[1] Fixing holes (V) for countersunk head screws according to DIN 7991
[2] Fixing holes (C) for socket cap screws according to DIN 912

Fig. 13

Type	D [mm]	K [mm]	F	C²	V¹	X	Standard radii [mm]	Y [mm]	Weight [kg/m]
CKR01 CVR01	16.5	10	up to M6	up to M5	up to M5	dependent on radius	150 - 200 - 250 - 300 - 400 - 500 - 600 - 700 - 800 - 900 - 1000	min. 70	1.2
CKR05 CVR05	23	13.5	up to M8	up to M6	up to M6				2.2

Tab. 5

Please indicate the precise rail layout and the desired hole pattern in a drawing. We recommend 80 mm (3.15 in) on the extended length as a gage for the hole pattern.

Non-standard radii are possible as special products. For more information on rail layouts, radii and hole patterns, please contact Rollon Technical Support.

Slider

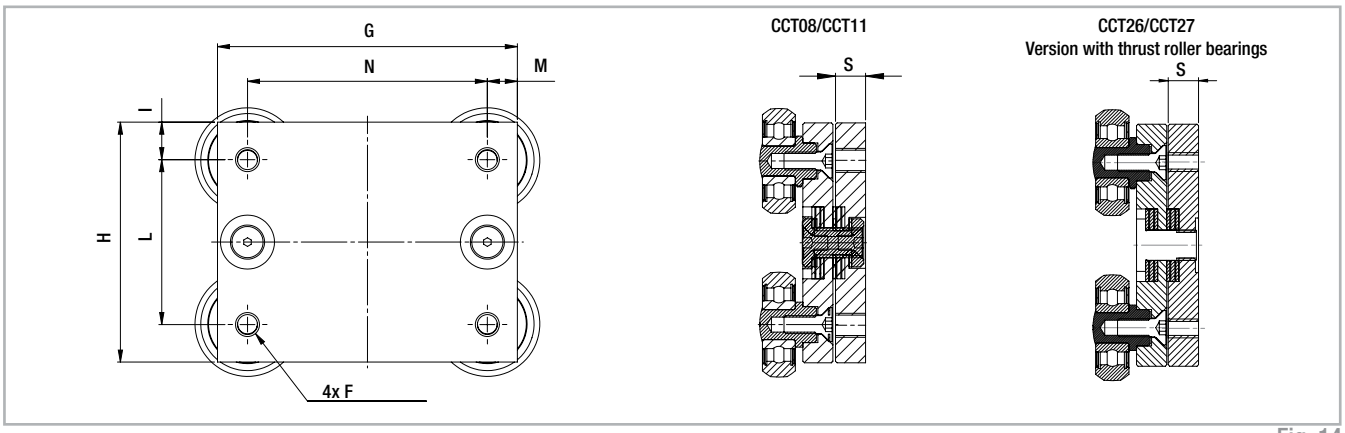


Fig. 14

Type	G [mm]	H [mm]	I [mm]	L [mm]	M [mm]	N [mm]	S [mm]	F	Weight [kg]
CCT08/CCT26	70	50	10	30	10	50	10	M5	0.45
CCT11/CCT27	100	80	12.5	55	10	80	10	M8	1.1

Tab. 6

Mounted sliders and rails

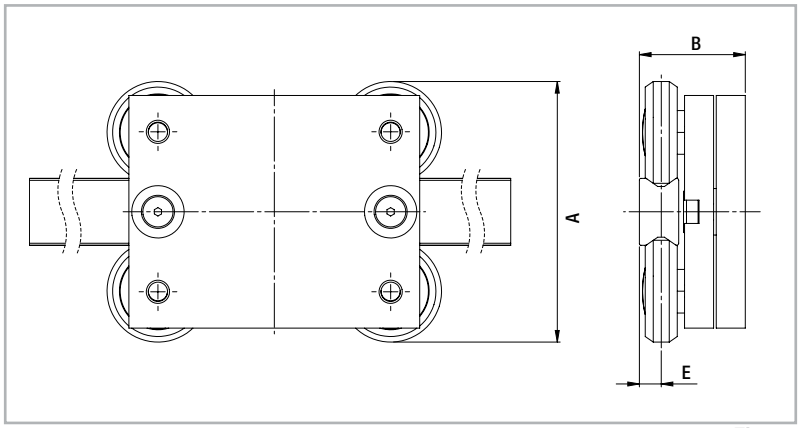


Fig. 15

Configuration	A [mm]	B [mm]	E [mm]
CKR01-CCT08	60	32.3	5.7
CVR01-CCT08			
CKR01-CCT26	60	32	5.7
CVR01-CCT26			
CKR05-CCT11	89.5	36.4	7.5
CVR05-CCT11			
CKR05-CCT27	89.5	36	7.5
CVR05-CCT27			

Tab. 7

Load capacities

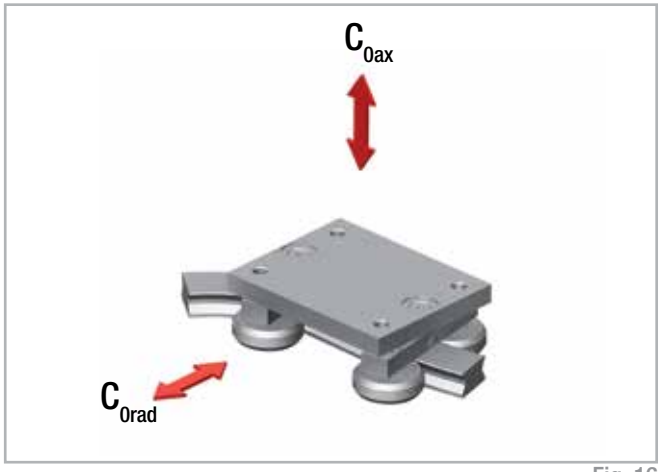


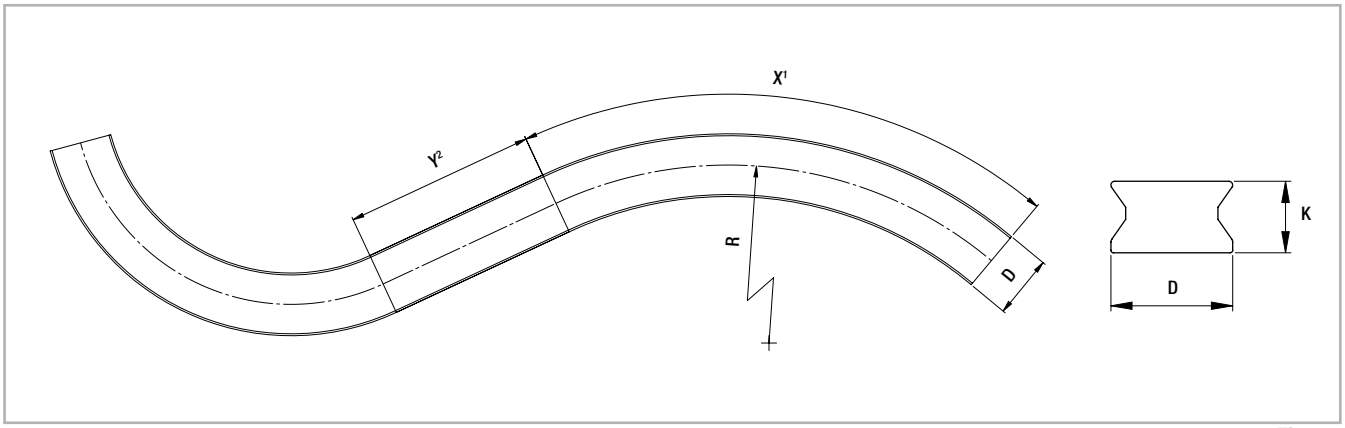
Fig. 16

Slider type	Load capacities	
	C_{0ax} [N]	C_{0rad} [N]
CKR01-CCT08/CCT26 CVR01-CCT08/CCT26	400	570
CKR05-CCT11/CCT27 CVR05-CCT11/CCT27	1130	1615

Resulting moment loads must be absorbed through the use of two sliders

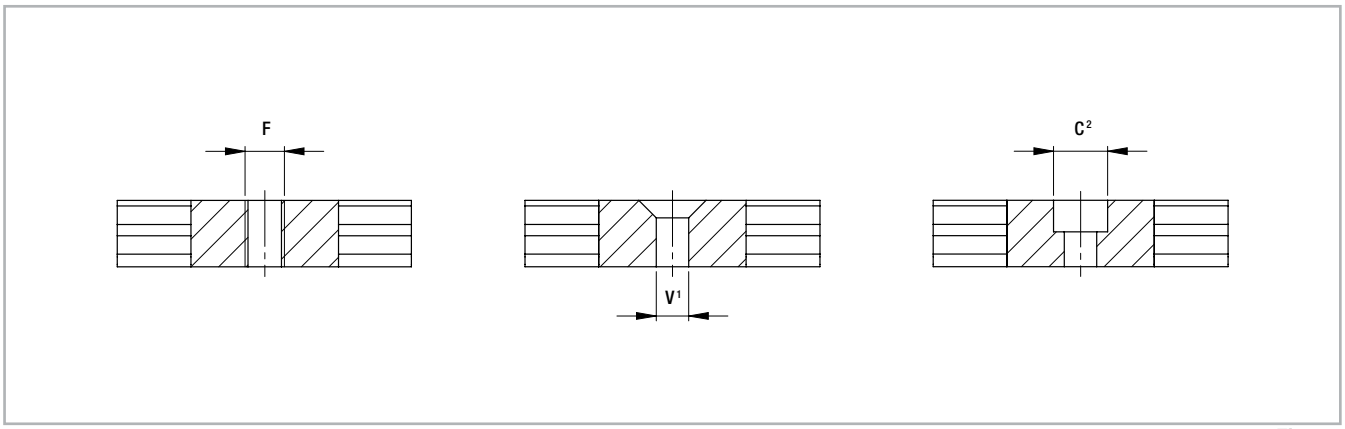
Tab. 8

Rails with constant/variable radii in stainless steel



[1] The max. angle (X) is dependent on the radius
[2] For curved linear rails with variable radius, there must always be a straight section (Y) between two successive curved sections.
Refer to tab.18 on pag. CL-15 to define the minimum length required for the straight section (Y).

Fig. 17



[1] Fixing holes (V) for countersunk head screws according to DIN 7991
[2] Fixing holes (C) for socket cap screws according to DIN 912

Fig. 18

Type	D [mm]	K [mm]	F	C²	V¹	X	Standard radii [mm]	Y [mm]	Weight [kg/m]
CKRX01 CVRX01	16.5	10	up to M6	up to M5	up to M5	dependent on radius	150 - 200 - 250 - 300 - 400 - 500 - 600 - 700 - 800 - 900 - 1000	min. 70	1.2
CKRX05 CVRX05	23	13.5	up to M8	up to M6	up to M6				2.2

Tab. 9

Please indicate the precise rail layout and the desired hole pattern in a drawing. We recommend 80 mm (3.15 in) on the extended length as a gage for the hole pattern.

Non-standard radii are possible as special products. For more information on rail layouts, radii and hole patterns, please contact Rollon Technical Support.

Slider in stainless steel

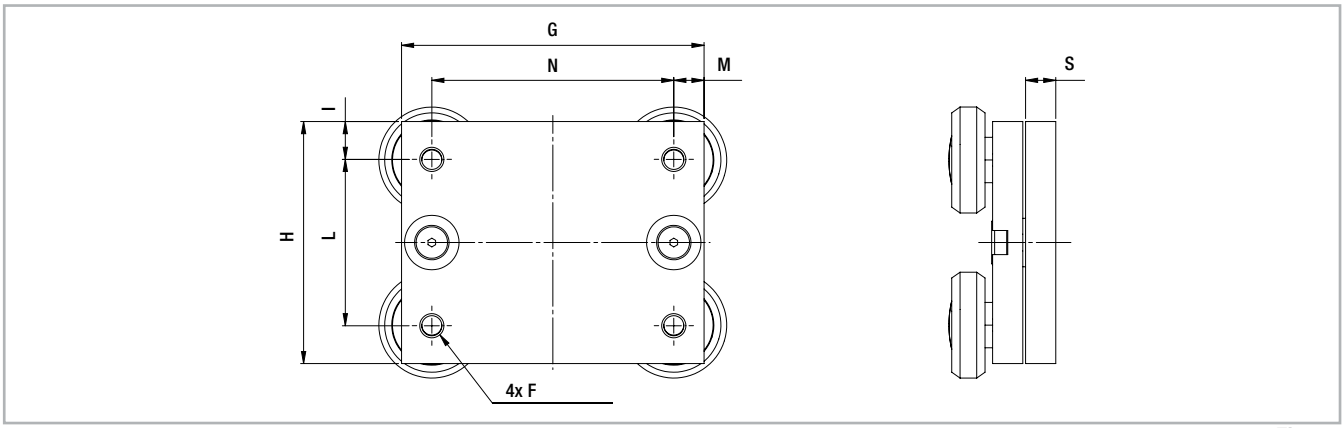


Fig. 19

Type	G [mm]	H [mm]	I [mm]	L [mm]	M [mm]	N [mm]	S [mm]	F	Weight [kg]
CCTX08	70	50	10	30	10	50	10	M5	0.45
CCTX11	100	80	12.5	55	10	80	10	M8	1.1

Tab. 10

Rail-slider package in stainless steel

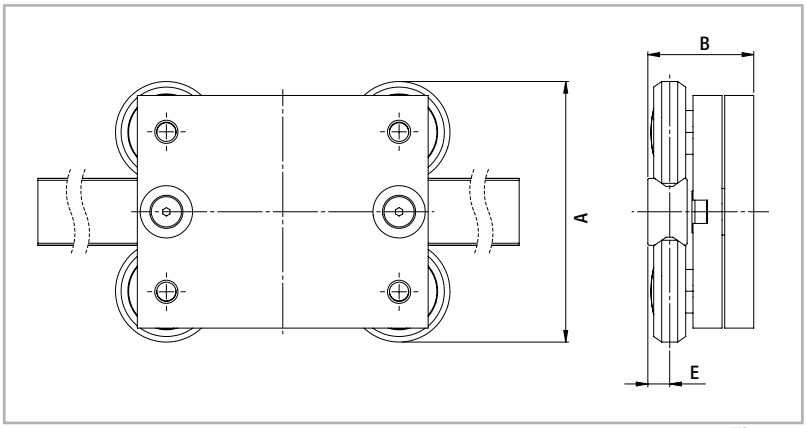


Fig. 20

Configuration	A [mm]	B [mm]	E [mm]
CKRX01-CCTX08 CVRX01-CCTX08	60	32.3	5.7
CKRX05-CCTX11 CVRX05-CCTX11	89.5	36.4	7.5

Tab. 11

Load capacities

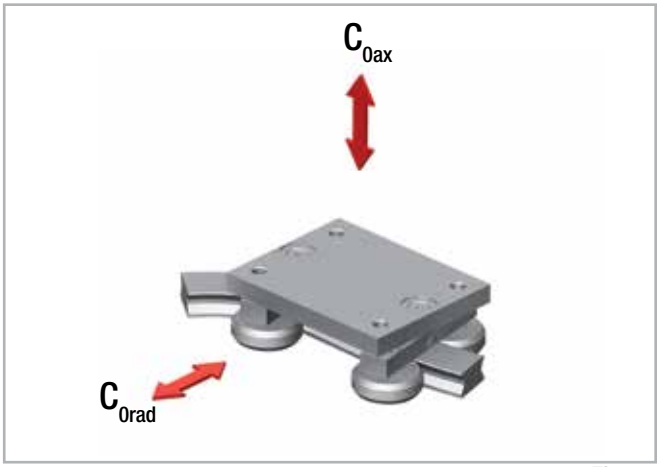


Fig. 21

Slider type	Load capacities	
	C_{0ax} [N]	C_{0rad} [N]
CKRX01-CCTX08 CVRX01-CCTX08	400	570
CKRX05-CCTX11 CVRX05-CCTX11	1130	1615

Tab. 12

Resulting moment loads must be absorbed through the use of two sliders

Technical instructions

Slider with joint

In applications involving the simultaneous use of two sliders connected to the same mobile element and along a curved guide with variable radius, or combined straight and curved sections in the same guide, a joint between the sliders and the mobile element is necessary to avoid jamming of the sliders in the areas of changing curvature. Alternatively, Rollon can supply, for each type of slider in the catalog, a special version with an oscillating plate that enables the joint, guaranteeing optimal movement and eliminating the need to build the joint on the moving structure.

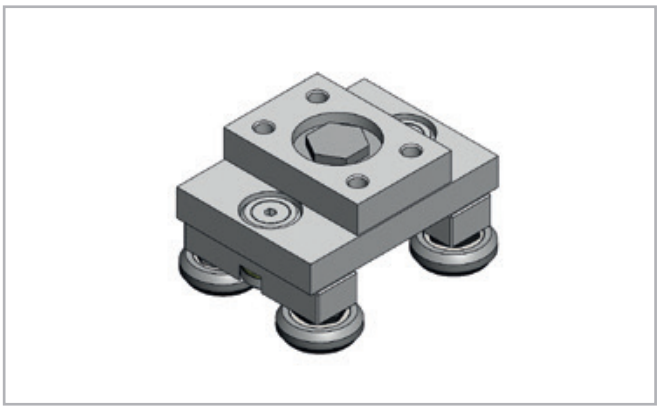


Fig. 22

Slider dimensions - CCT32/CCT36

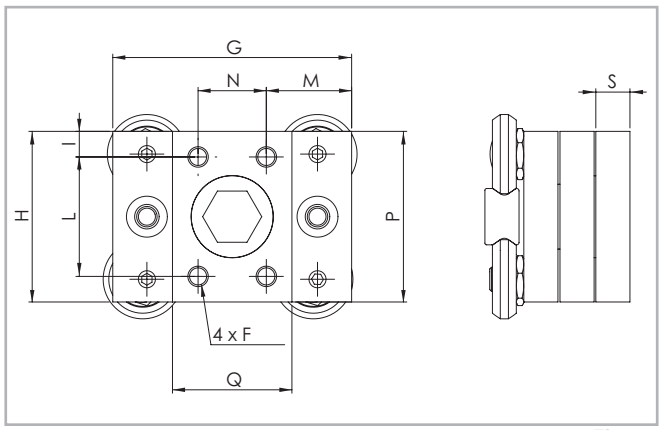


Fig. 23

Slider dimensions - CCT33/CCT37

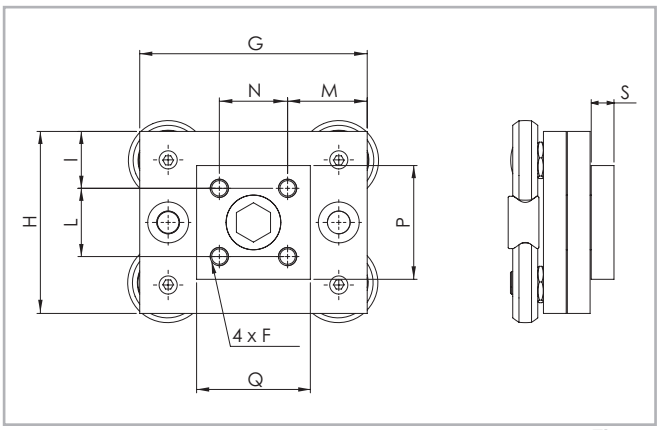


Fig. 24

Type	Rail size [mm]	G [mm]	H [mm]	I [mm]	L [mm]	M [mm]	N [mm]	S [mm]	F	P [mm]	Q [mm]
CCT32*1/CCT36*2	01	70	50	7.5	30	25	20	10	M6	50	35
CCT33*1/CCT37*2	05	100	80	25	30	35	30	10	M8	50	50

1) Slider with thrust roller bearings (CCT32/CCT33). Not available in stainless steel.
2) Slider with thrust washers on the steering arms and axial roller bearings on the central joint (CCT36/CCT37). Not available in stainless steel.

Tab. 13

Mounted sliders and rails

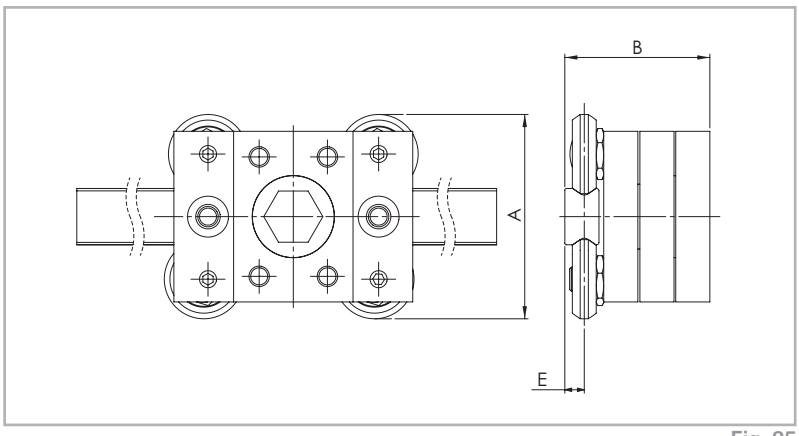


Fig. 25

Configuration	A [mm]	B [mm]	E [mm]
CCT32/CCT36	60	42.5	5.7

Tab. 14

Mounted sliders and rails

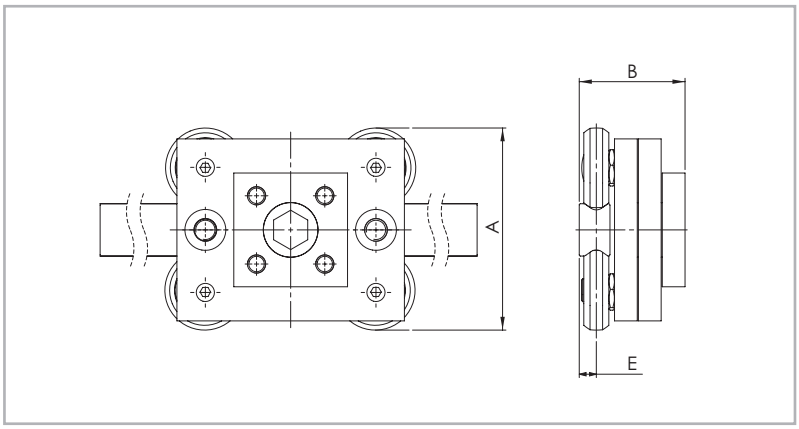


Fig. 26

Configuration	A [mm]	B [mm]	E [mm]
CCT33/CCT37	89.5	46.5	7.5

Tab. 15

Load capacities

Slider type \ Rails	Temperated raceways		Carbon steel		Stainless steel	
	Load capacities		Load capacities		Load capacities	
	C_{0ax} [N]	C_{0rad} [N]	C_{0ax} [N]	C_{0rad} [N]	C_{0ax} [N]	C_{0rad} [N]
CCT32/CCT36	592	980	400	570	400	570
CCT33/CCT37	1459	2475	1130	1615	1130	1615

Resulting moment loads must be absorbed through the use of two sliders

Tab. 16

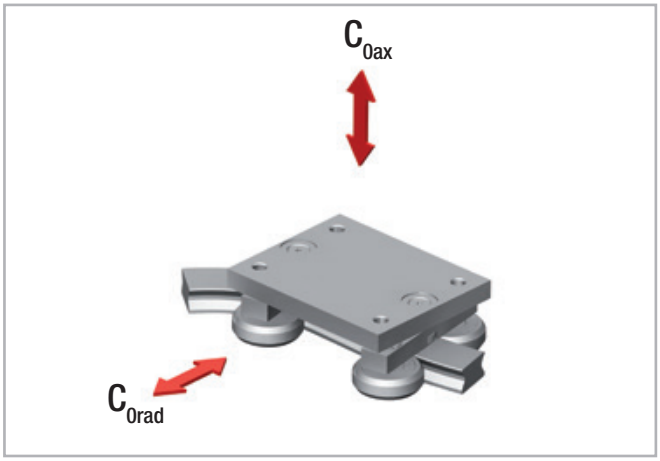


Fig. 27

Anticorrosive protection

The Curviline product family comes standard with electrolytic zinc plating with passivation for anitcorrosion protection. If increased anticorrosive protection is required, application-specific surface treatments are available on request, e.g. as nickel-plated design with FDA approval for use in the food industry. The Curviline series is also available in stainless steel. For more information, please contact Rollon technical support.

Lubrication

Roller lubrication

All rollers of the Curviline product family are lubricated for life.

Lubrication of the raceways

Rails must be lubricated before operation. Recommended lubrication intervals are heavily dependent upon the ambient conditions, speed and temperature. Under normal conditions, lubrication is recommended after 100 km operational performance or after an operating period of six months. In critical application cases the interval should be shorter. Please clean the raceways carefully before lubrication.

We recommend a roller bearing lubricant with a lithium base of average consistency.

Proper lubrication during normal conditions:

- reduces friction
- reduces wear
- reduces the load of the contact surfaces through elastic deformations
- reduces running noise

Different lubricants are available by request for special applications:

- FDA-approved lubricant for use in the food industry
- specific lubricant for clean rooms
- specific lubricant for the marine technology sector
- specific lubricant for high and low temperatures

For specific information, contact Rollon technical support.

Setting the preload

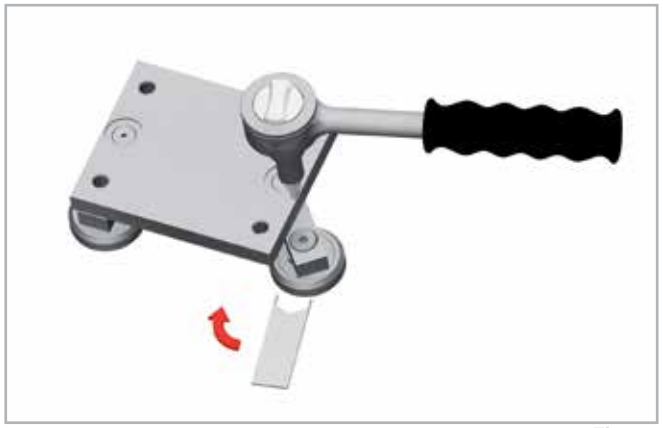


Fig. 28

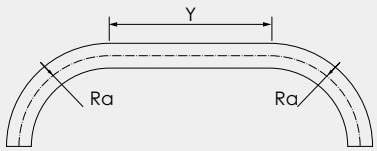
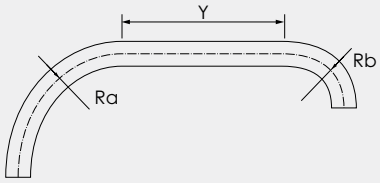
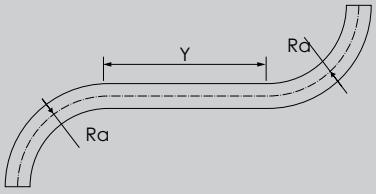
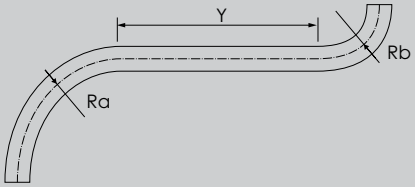
Type	Tightening torque [Nm]
CCT08	7
CCT11	12

Tab. 17

If the curvilinear rails are delivered as a system, the sliders are already set with no clearance. In this case the fixing screws are secured with Loctite® at the factory.

If delivered separately, or if the sliders should be installed in another track, the eccentric roller pins must be readjusted. Important: The fixing screws must be additionally glued against loosening. The following points must also be observed:

- Wipe the raceways of any dirt and debris.
- Slightly loosen the fixing screws of the roller mounting. The eccentric roller pins are marked on the bottom.
- Position the slider(s) at the ends of the rail.
- The special flat key provided is inserted from the side onto the hexagonal of the roller to be set (see fig. 28).
- By turning the flat key clockwise the roller is pressed against the raceway and thus reduces the clearance. Observe that with increasing preload, the friction is also increased and thus the service life reduced.
- Hold the roller pin with the adjustment key in the desired position and carefully tighten the fixing screw. The exact tightening torque will be checked later.
- Move the slider on the rail and check the preload over the entire length of the rail. It should move easily and the slider should not have play at any location of the rail.
- Now tighten the fixing screws with the specified tightening torque (see tab. 17), while the flat key holds the angle adjustment of the pin. A special thread in the roller pin secures the set position.

Configurations	GCT01	GCT05
	Se Ra < 133 mm, Y ≥ 80 mm	Se Ra < 195 mm, Y ≥ 80 mm
	Se Ra > 133 mm, Y ≥ 70 mm	Se Ra >195 mm, Y ≥ 70 mm
	Se Ra > 133 mm e Rb < 133 mm Y ≥ 100 mm (*)	Se Ra > 195 mm e Rb < 195 mm Y ≥ 100 mm (*)
	Se Ra > 133 mm e Rb > 133 mm Y ≥ 70 mm (*)	Se Ra > 195 mm e Rb > 195 mm Y ≥ 70 mm (*)
	Se Ra < 133 mm e Rb < 133 mm Y ≥ 80 mm (*)	Se Ra < 195 mm e Rb < 195 mm Y ≥ 80 mm (*)
	Se Ra < 133 mm, Y ≥ 80 mm	Se Ra < 195 mm, Y ≥ 80 mm
	Se Ra > 133 mm, Y ≥ 60 mm	Se Ra > 195 mm, Y ≥ 60 mm
	Se Ra > 133 mm e Rb < 133 mm Y ≥ 100 mm (*)	Se Ra > 195 mm e Rb < 195 mm Y ≥ 100 mm (*)
	Se Ra > 133 mm e Rb > 133 mm Y ≥ 60 mm (*)	Se Ra > 195 mm e Rb > 195 mm Y ≥ 60 mm (*)
	Se Ra < 133 mm e Rb < 133 mm Y ≥ 80 mm (*)	Se Ra < 195 mm e Rb < 195 mm Y ≥ 80 mm (*)

(*) the above rules are independent of the sequence of the Ra and Rb radii on the circuit

Tab. 18

Ordering key

Constant radius rail / slider system

CKR01	**85°**	**600**	**890**	**/2/**	**CCT08**	**NIC**	**R**	
							Right or left version	
						Expanded surface protection if deviation from Standard *see pg. CL-12 Anticorrosion protection*		
					Slider type	*see pg. CL-7, tab. 3 ; CL-9, tab.7 ; CL-11, tab.11*		
				Number of sliders				
			Rails extended length					
		Radius	*see pg. CL-6, tab. 1 ; CL-8, tab. 5 ; CL-10, tab. 9*					
	Angle							
Rail type	*see pg. CL-6, tab. 1 ; CL-8, tab. 5 ; CL-10, tab. 9*							

Ordering example: CKR01-085°-0600-0890/2/CCT08-NIC-R

Note: Information for right and left side installation and for expanded surface protection is only necessary if required

Notes on ordering: Rail lengths and radii always are indicated with four digits, angles always with three digits and a zero as prefix

Exact specifications (angle, radius, hole pattern, etc.) must be represented in a drawing

Variable radius rail / slider system

CVR01	**39°**	**200**	**//23°**	**400**	**297**	**/2/**	**CCT08**	**NIC**	**R**
									Right or left version
								Expanded surface protection if deviation from Standard *see pg. CL-8 Anticorrosion protection*	
							Slider type ;	*see pg. CL-7, tab. 3 ; CL-9, tab.7 CL-11, tab.11*	
						Number of sliders			
					Rails extended length				
				Radius	*see pg. CL-6, tab. 1 ; CL-8, tab. 5 ; CL-10, tab. 9*				
			Angle						
		Radius	*see pg. CL-6, tab. 1 ; CL-8, tab. 5 ; CL-10, tab. 9*						
	Angle								
Rail type	*see pg. CL-6, tab. 1 ; CL-8, tab. 5 ; CL-10, tab. 9*								

Ordering example: CVR01-039°-0200//023°-0400-0297/2/CCT08-NIC-R

Note: Data for angles and respective radii are in sequential order

Note: Information for right and left side installation and for expanded surface protection is only necessary if required

Notes on ordering: Rail lengths and radii always are indicated with four digits, angles always with three digits and a zero as prefix

Exact specifications (layout, angle, radius, hole pattern, etc.) must be represented in a drawing

Constant radius rails

CKR01	120°	600	1152	NIC	R
					Right or left version
				Expanded surface protection if deviation from Standard	
				see pg. CL-12 Anticorrosion protection	
			Rails extended length		
		Radius	*see pg. CL-6, tab. 1 ; CL-8, tab. 5 ; CL-10, tab. 9*		
	Angle				
Rail type	*see pg. CL-6, tab. 1 ; CL-8, tab. 5 ; CL-10, tab. 9*				

Ordering example: CKR01-120°-0600-1152-NIC-R

Note: Information for right and left side installation and for expanded surface protection is only necessary if required

Notes on ordering: Rail lengths and radii always are indicated with four digits, angles always with three digits and a zero as prefix

Exact specifications (angle, radius, hole pattern, etc.) must be represented in a drawing

Variable radius rails

CVR01	39°	200	//23°	400	297	NIC	R
							Right or left version
						Expanded surface protection if deviation from Standard	
						see pg. CL-12 Anticorrosion protection	
					Rails extended length		
				Radius	*see pg. CL-6, tab. 1 ; CL-8, tab. 5 ; CL-10, tab. 9*		
			Angle				
		Radius	see *pg. CL-6, tab. 1 ; CL-8, tab. 5 ; CL-10, tab. 9*				
	Angle						
Rail type	see *pg. CL-6, tab. 1 ; CL-8, tab. 5 ; CL-10, tab. 9*						

Ordering example: CVR01-039°-0200//023°-0400-0297-NIC-R

Note: Data for various angles and respective radii are in sequential order

Note: Information for right and left side installation and for expanded surface protection is only necessary if required

Notes on ordering: Rail lengths and radii always are indicated with four digits, angles always with three digits and a zero as prefix

Exact specifications (layout, angle, radius, hole pattern, etc.) must be represented in a drawing

Slider

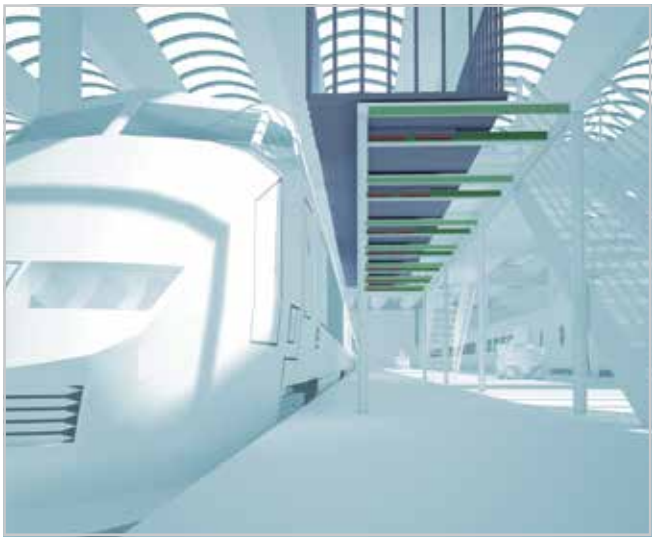
CCT08	NIC	
	Expanded surface protection if deviation from Standard	*see pg. CL-12 Anticorrosion protection*
Slider type	*see pg. CL-7, tab. 3 ; CL-9, tab.7 ; CL-11, tab.11*	

Ordering example: CCT08-NIC

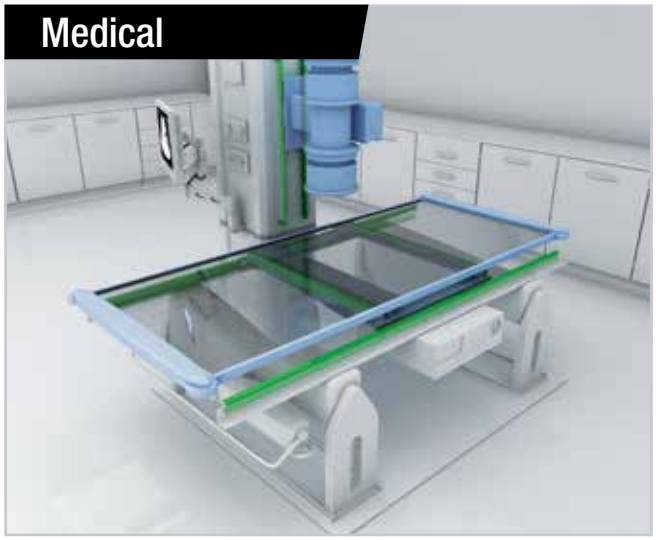
Note: Information for expanded surface protection are only necessary when needed

Guides suitable for all applications

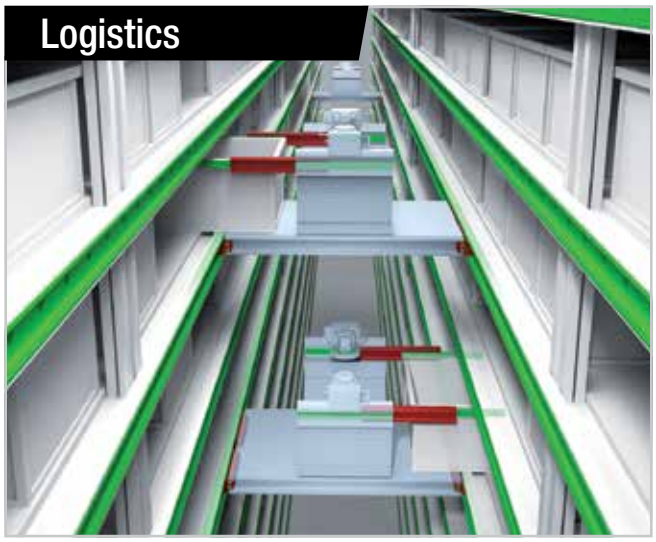
Railway

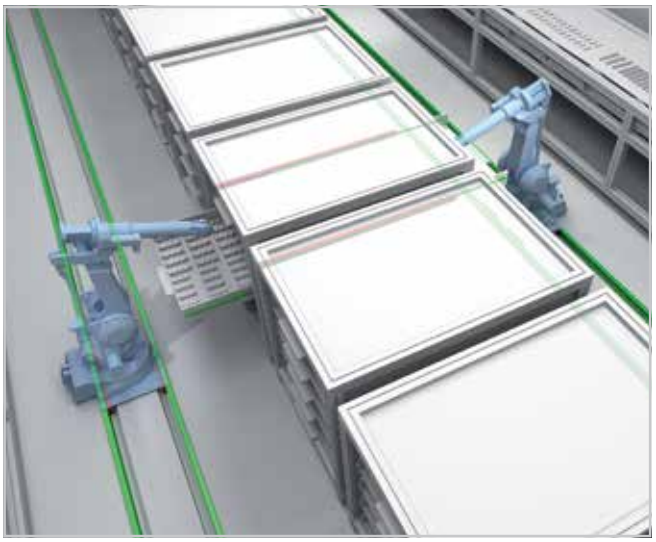


Medical



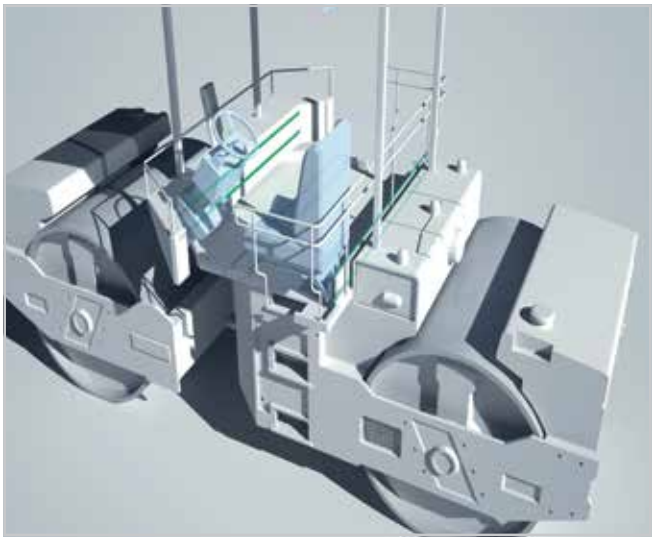
Logistics





Aerospace

Special Vehicles



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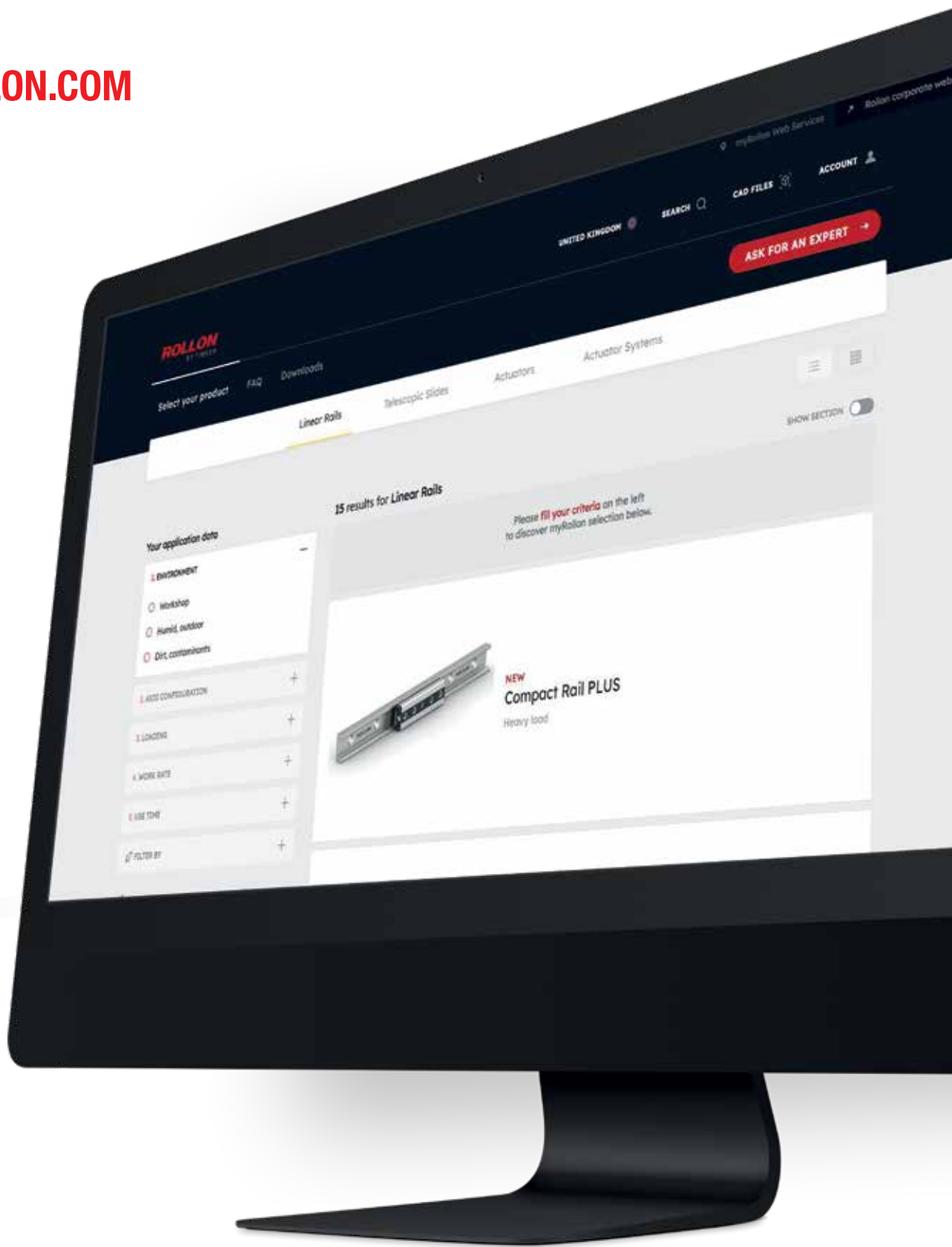

ROLLON®
BY TIMKEN

Follow us:

ROLLON S.p.A. - ITALY

Via Trieste 26
I-20871 Vimercate (MB)
Phone: (+39) 039 62 59 1
www.rollon.com - infocom@rollon.com

ROLLON GmbH - GERMANY

Bonner Strasse 317-319
D-40589 Düsseldorf
Phone: (+49) 211 95 747 0
www.rollon.de - info@rollon.de

ROLLON S.A.R.L. - FRANCE

Les Jardins d'Eole, 2 allée des Séquoias
F-69760 Limonest
Phone: (+33) (0) 4 74 71 93 30
www.rollon.fr - infocom@rollon.fr

ROLLON Ltd - UK (Rep. Office)

The Works 6 West Street Olney
Buckinghamshire, United Kingdom, MK46 5 HR
Phone: +44 (0) 1234964024
www.rollon.uk.com - ukandireland@rollon.com

AMERICA

ROLLON Corporation - USA

101 Bilby Road. Suite B
Hackettstown, NJ 07840
Phone: (+1) 973 300 5492
www.rollon.com - info@rolloncorp.com

ROLLON - SOUTH AMERICA

101 Bilby Road. Suite B
Hackettstown, NJ 07840
Phone: (+1) 973 300 5492
www.rollon.com - info@rolloncorp.com

ASIA

ROLLON Ltd - CHINA

No. 1155 Pang Jin Road,
China, Suzhou, 215200
Phone: +86 0512 6392 1625
www.rollon.cn.com - info@rollon.cn.com

ROLLON India Pvt. Ltd. – INDIA

39-42, Electronic City, Phase-I,
Hosur Road, Bangalore-560100
www.rollonindia.in - info@rollonindia.in

ROLLON - JAPAN

〒252-0131
神奈川県相模原市緑区西橋本1-21-4
橋本屋ビル
電話番号：(+81) 042-703-4101
www.rollon.jp - info@rollon.jp

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