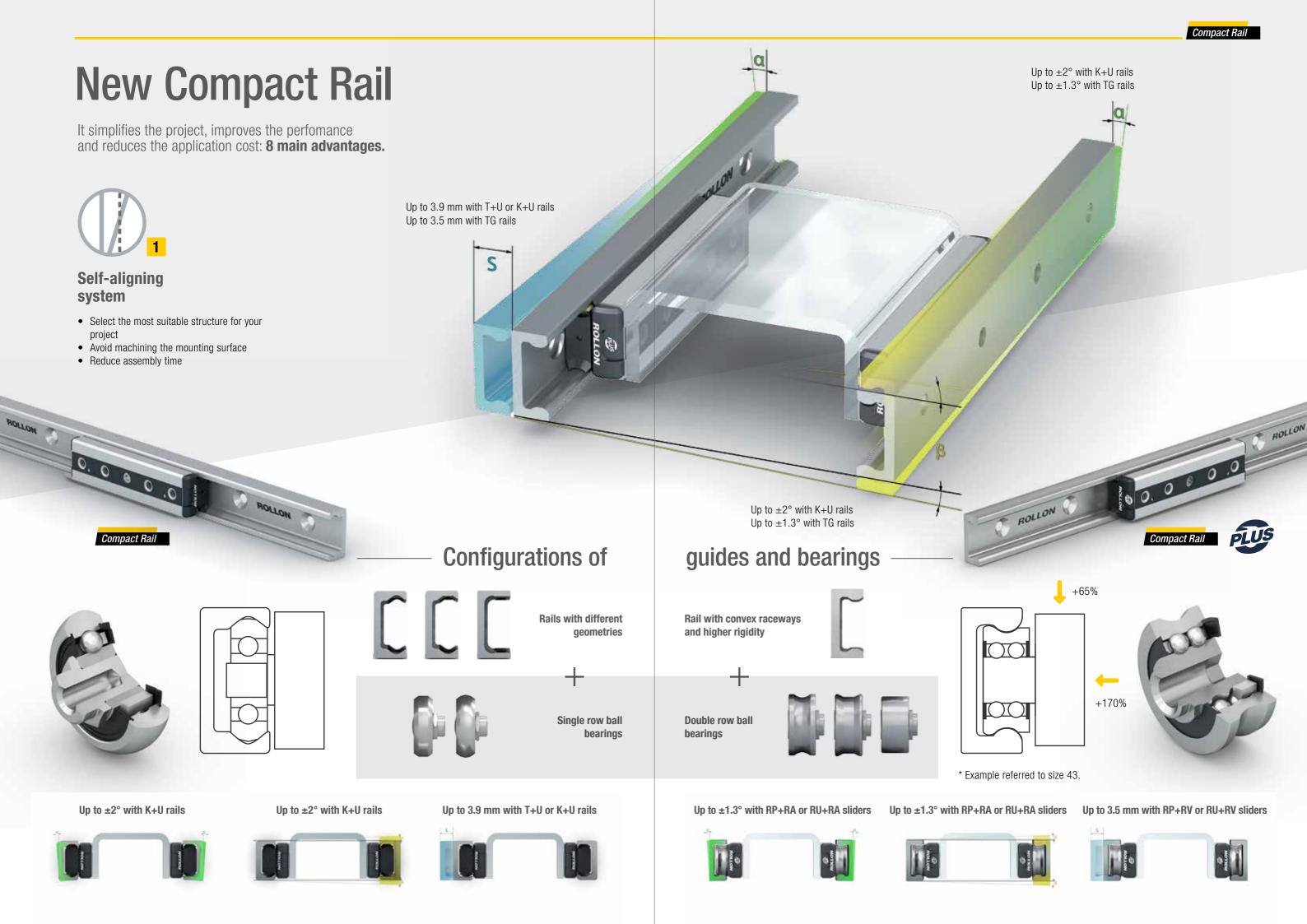


Linear Line

Compact Rail







Optimal reliability in dirty environments

Lateral sealing for greater protection against contaminants

New self-centering wiper for optimal cleaning of the raceways



Resistant to corrosion

Different surface treatments make Compact Rail reliable even in the harsher environments

- Indoor applications: zinc-plating ISO 2081. Also available with electro-painted black finish
- Corrosive environments (humidity): electrolytic plating with high resistance passivation Rollon Alloy
- Corrosive environments (acidic or basic): nickel-plating



Long lifetime

Induction hardened raceways with 1.2 mm effective depth and hardness between 58 and 62 HRC



Acceleration up to 20 m/s²



Low maintenance

Integrated lubrication system with slow release felt and front-access for greasing

Uniquely quiet

Ground raceways for smooth and silent movement



New Compact Rail slider

Improved performance and a new look designed to fit every project perfectly.



Compact Rail

HOLLON

ROTTON

0.00.0

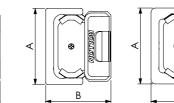
Self-aligning linear guides with bearings and C-Profile, featuring a newly designed robust steel slider.

Compact Rail is part of the guide rail product family, consisting of roller sliders with radial bearings, which slide on an internal induction hardened and ground C-profile raceway, made from cold-drawn carbon steel. Compact Rail consists of three product series: the fixed bearing rail (T), the floating bearing rail (U) and a compensating bearing rail (K). They can be combined to create self-aligning systems:

• **T+U system**: pairing a fixed bearing rail (T) with a floating bearing rail (U), allows for the absorption of deviations in parallelism of the mounting surfaces. The T-rail takes on the full load while the U-rail allows for axial translation up to 3.9 mm.

K+U system: pairing a compensating bearing rail (K) with a floating bearing rail (U), allows for the absorption of deviations in parallelism of the mounting surfaces and height offset. With its particular shape, the K-rail takes on the load and allows the slider a rotation around its longitudinal axis up to ±2°, while the U-rail allows for axial translation up to 3.9 mm.

T-rail with NSW slider U-rail with NSW slider K-rail with NSA slider



Rail type	Slider type	Size	Overall dimensions		Max. load capacity [N]		Dynamic coefficient			Max. rail Length*1	Max. Speed ^{∗2}	Max. Acceleration	Operating temperature		inment nsation	
			A [mm]	B [mm]	C _{orad}	C _{oax}	[N] C 100	M _x	M _y	M _z	[mm]	[m/s]	[m/s²]	[°C]	Axial [mm]	Radial [°]
TLC	NSW	18	18	16,5	975	440	1830	3.3	11.8	41.1	2000	3	10		*3	
		28	28	23.9	2580	1070	5065	13.7	36.2	136.1	3200	5	15			
		35	35	30.2	4180	1780	9565	28.5	72.2	263.4	3600	6	15	-20/ +120		
		43	43	37	6540	2645	14675	52	135.8	522.5	3600	7	15			
		63	63	50.5	15000	10000	36600	350	689	1830	3600	9	20			
		18	18	16,5	975	0	1830	3.3	0	0	2000	3	10		1.4	
ULC	NSW	28	28	23.9	2580	0	5065	13.7	0	0	3200	5	15	-20 / +120	1.9	*4
		35	35	30.2	4180	0	9565	28.5	0	0	3600	6	15		3.9	
		43	43	37	6540	0	14675	52	0	0	3600	7	15		3.9	
		63	63	50.5	15000	0	36600	350	0	0	3600	9	20		3.9	
KLC	NSA	43	43	37	6065	1570	14675	0	108.7	484.5	3600	7	15	-20 +120	*3	±2
		63	63	50.5	13745	6000	36660	0	589	1560	3600	9	20		±	±1

¹¹ Longer single rails up to max. 4080 mm on request. Longer strokes are available joining profiles.

^{*2} The maximum value is defined by the application.

*3 Compensates axial misalignment in combination with ULC.

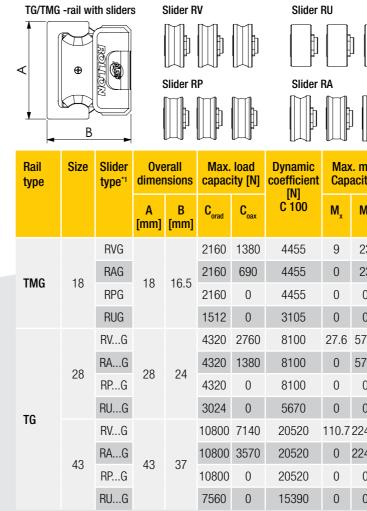
^{*4} Compensates radial misalignment in combination with KLC.

The newly designed Rollon guide with double row ball bearings for higher load capacities.

Compact Rail Plus linear guides feature double row ball bearings for higher load capacities and rigid rails with convex raceways. They have been designed for the most demanding applications in terms of load capacities, dynamics and work environment. All while maintaining the self-aligning capabilities that make this product family unique. Sliders are available in four versions: guiding slider (RV), floating slider (RP), extra-floating slider (RU) and rotating slider (RA). Combining two rails with different sliders makes it possible to create self-aligning systems:

• V + P (or U) system: pairing two rails, one featuring a guiding slider RV and one with a floating slider RP (or extra-floating slider RU), allows for the absorption of deviations in parallelism of the mounting surfaces. The RV slider takes on the full load while the RP (or RU) slider allows for axial translation up to 3.5 mm.

• A + P (or U) system: pairing two rails, one featuring a rotating slider RA and one with a floating slider RP (or extra-floating slider RU), allows for the absorption of deviations in parallelism of the mounting surfaces and height offset. With its special bearings configuration, the RA slider takes on the load and is able to rotate around its longitudinal axis up to $\pm 1.3^{\circ}$, while the RP (or RU) slider allows for axial translation up to 3.5 mm.



^{*1} The functional characteristic is related to the nominal floating capacity of the different type of sliders.

^{*2} Longer single rails up to max. 4080 mm on request. Longer strokes are available joining profiles.

^{*3} The maximum value is defined by the application.

*4 Compensates axial misalignment with RP or RU slider.

*5 Compensates radial misalignment with RA slider.



Norron

4000 A

noment ity [Nm]		Max. rail Length ^{*2} [mm]	Max. Speed ^{*3}	Max. Acceleration [m/s ²]	Operating temperature [°C]	Misalignment compensation		
M _y	Mz	[]	[m/s]	[11/0]	[9]	Axial [mm]	Radial [°]	
23	80		3			*4		
23	80	0000		10	00 / 100	*4	±1	
0	80	2960		10	-20 / +120	0.8	*5	
0	56					1.4	*5	
7.5	200		F		-20°C/	*4		
7.5	200	0000		15		*4	±0.85	
0	200	3600	5	15	+120°C	0.8	*5	
0	140					2.4	*5	
24.3	754					*4		
24.3	754	0000	7	15	-20°C /	*4	±1.3	
0	754	3600	7	15	+120°C	2.0	*5	
0	527.8					3.5	*5	





EUROPE

ROLLON S.p.A. - ITALY (Headquarters)

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

ROLLON S.p.A. - RUSSIA (Rep. Office)

117105, Moscow, Varshavskoye shosse 17, building 1 Phone: +7 (495) 508-10-70 www.rollon.ru - info@rollon.ru

AMERICA

ROLLON Corporation - USA

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

Consult the other ranges of products



V

All addresses of our global sales partners can also be found at www.rollon.com

The content of this document and its use are subject to the general terms of sale of ROLLON available on the web site www.rollon.com Changes and errors expected. The text and images may be used only with our permission.

ROLLON GmbH - GERMANY

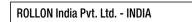
Bonner Strasse 317-319 D-40589 Düsseldorf Phone: (+49) 211 95 747 0 www.rollon.de - info@rollon.de

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 - info@rollon.uk.com

ROLLON - SOUTH AMERICA

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



1st floor, Regus Gem Business Centre, 26/1 Hosur Road, Bommanahalli, Bangalore 560068 Phone: (+91) 80 67027066 www.rollonindia.in - info@rollonindia.in

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



3F Shiodome Building, 1-2-20 Kaigan, Minato-ku, Tokyo 105-0022 Japan Phone +81 3 6721 8487

v

www.rollon.jp - info@rollon.jp

Distributor

v

V

