UK

uni chains

NEW

Modular Belt series

> uni RTB M1
> uni RTB M2

The brand for plastic modular belts and chains

Pitch 50.8 mm (2.00 in.)

uni RTB - State of The Art in Roller Top Modular Belts

The new uni RTB belt is the most flexible and reliable handling solution for your goods.

Numerous variation options in roller positioning makes uni RTB the smartest straight running modular belt.

The Pinless Snap Link® enables easy assembling and provides product reliability.

uni RTB – will be the Number One Belt in the following Industries/ Applications:

Tyre and rubber industries:

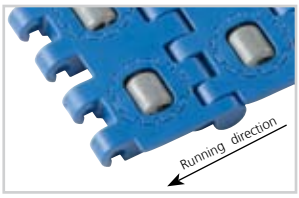
- Collector belt of finished tires from vulcanizing/curing presses
- Final finish tire handling
- Sorting application
- Merging application
- 90-180 degree turning
- Tyre accumulation
- Semiproducts handling
- Rubber tape slitting equipment

Material handling applications

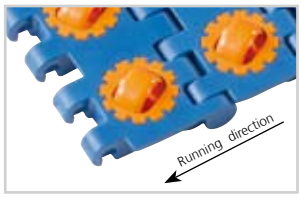
uni RTB – Product Features and Operational Benefits:

- High efficiency with elimination of jams, line stoppages, and product damage
- Simultaneous handling of many product sizes without controls or manual adjustments.
- Facilitated roller maintenance
- Pinless Snap Link® concept for easy assembling and product reliability
- Roller height above belt surface three and six mm (M1 and M2)
- Flexible roller positioning Rollers in six different positions: 0°, 30°, 60°, 90°, 120° and 150°
- M2 rollers for active conveying
- No rollers blocking even with sticky rubber

Standard Selection



uni RTB M1



uni RTB M2

Dimension for rollers
uni RTB M1: 17.9 mm (0.70 in.)
uni RTB M2: 23.9 mm (0.94 in.)

Straight running one direction

50.8 mm (2.00 in.)

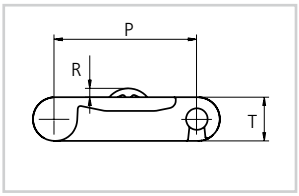
See Belt catalog

65.0 mm (2.56 in.)

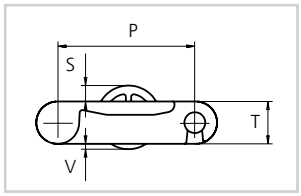
See page 5

See Belt catalog

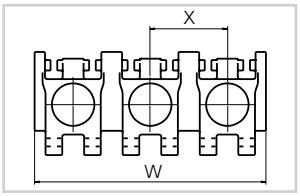
Dimensional Sketches



uni RTB M1

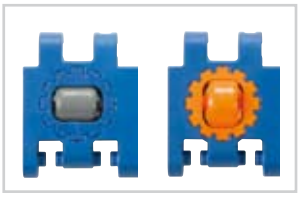


uni RTB M2

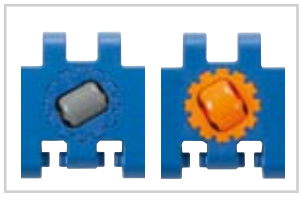


uni RTB M1 | uni RTB M2

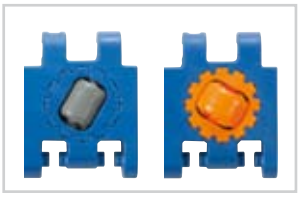
Mounting Positions



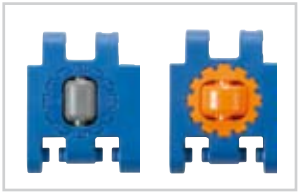
uni RTB M1 | uni RTB M2
000°



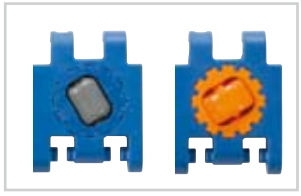
uni RTB M1 | uni RTB M2
030°



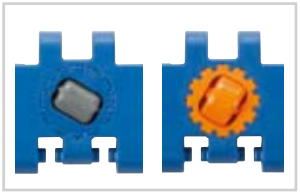
uni RTB M1 | uni RTB M2
060°



uni RTB M1 | uni RTB M2
090°



uni RTB M1 | uni RTB M2
120°



uni RTB M1 | uni RTB M2
150°

Dimensions

	mm	in.
P	50.8	2.00
T	16.0	0.63
R	3.0	0.12
S	6.0	0.24
V	2.0	0.08
W	152.8	6.00
X	50.8	2.00

uni RTB M1

The rollers are only extending on one side of the belt - the top.
Accumulation roller provide less friction between the belt and the conveyed product, and ensure the best possible sideways loading of belt.

uni RTB M2

The rollers are only extending on two sides of the belt - the top and bottom. When the belt rollers are rotating, the conveyed products will move faster than the belt. When the belt rollers do not rotate the conveyed product will travel the belt speed.

Mounting positions

0° = Rollers rotate in travel direction.
30° = Roller pins angled counter clockwise 30° (move products to the left).
60° = Roller pins angled counter clockwise 60° (move products to the left).
90° = Roller pins rotate perpendicularly to the travel direction.
120° = Roller pins angled counter clockwise 120° (move products to the right).
150° = Roller pins angled counter clockwise 150° (move products to the right).

Standard Materials and Colors

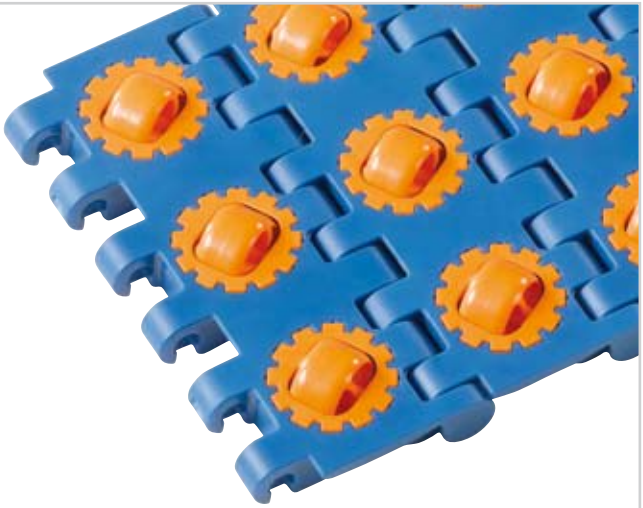
Type	Standard materials and colors	Standard roller materials and colors	Standard cover plates materials and colors	Standard pins for rollers
uni RTB M1	POM-S B	POM-NL G	POM-NL B	SS304
uni RTB M2	POM-S B	POM-NL O	POM-NL O	SS304

Standard Bricklayed Belt Widths (See below for Single Link® widths)

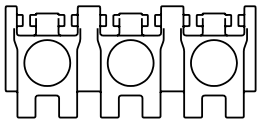
mm	in.	mm	in.	mm	in.	mm	in.
153	6.0	509	20.0	865	34.1	1222	48.1
204	8.0	560	22.0	916	36.1	1273	50.1
255	10.0	611	24.0	967	38.1	1323	52.1
305	12.0	662	26.1	1018	40.1	1374	54.1
356	14.0	713	28.1	1069	42.1	1425	56.1
407	16.0	764	30.1	1120	44.1	1476	58.1
458	18.0	814	32.1	1171	46.1	1527	60.1

On above belt width values the belt width tolerance on standard material +0/-0.4%.

uni RTB Single Link®



uni RTB Single Link® is available in the following standard width:



K600 (152.8 mm (6.00 in.))

Belt Weights

Belt material	POM	
	kg/m²	lb/ft²
uni RTB M1 | uni RTB M2	20.1	4.12

Permissible Tensile Strength

Belt material	POM	
	N/m	lbf/ft
uni RTB M1 | uni RTB M2	27500	1884

Max. Load per Roller

Belt material	Max. pemissible static load		Max. pemissible dynamic load	
	N	lbf	N	lbf
uni RTB M1	3000	674	100	23
uni RTB M2	180	41	100	23

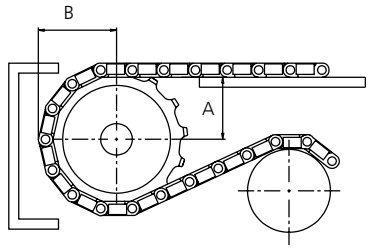
Standard Sprockets

No. of teeth	Pitch diameter		Overall diameter		Hub diameter		Bore		Reference no. plastic
	mm	in.	mm	in.	mm	in.	mm	in.	
6	101.6	4.00	99.5	3.92	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	183PA6MPBH06111N00
							sq 38.1	sq 1.50	183PA6MPBH06111N00I150S
							sq 40.0	sq 1.57	183PA6MPBH06111LG00M040S
8	132.8	5.23	132.9	5.23	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	183PA6MPBH08111LG00
							sq 38.1	sq 1.50	183PA6MPBH08111LG00I150S
							sq 40.0	sq 1.57	183PA6MPBH08111N00M040S
					100.0	3.94	sq 50.8	sq 2.00	183PA6MPBH08111N00I200S
10	164.4	6.47	165.8	6.53	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	183PA6MPBH10111N00
							sq 38.1	sq 1.50	183PA6MPBH10111N00I150S
							sq 40.0	sq 1.57	183PA6MPBH10111LG00M040S
					120.0	4.72	ø40.0/70.0*	ø1.57/2.76*	183PA6MPBH10111LG01
							sq 50.8	sq 2.00	183PA6MPBH10111N00I200S
							sq 63.5	sq 2.50	183PA6MPBH10111N00I250S
							sq 60.0	sq 2.36	183PA6MPBH10111LG00M060S
12	196.3	7.73	198.6	7.82	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	183PA6MPBH12111LG02
							sq 38.1	sq 1.50	183PA6MPBH12111N00I150S
							sq 40.0	sq 1.57	183PA6MPBH12111N00M040S
					120.0	4.72	ø40.0/70.0*	1.57/2.76*	183PA6MPBH12111N01
							sq 50.8	sq 2.00	183PA6MPBH12111N00I200S
							sq 60.0	sq 2.36	183PA6MPBH12111N00M060S
16	260.4	10.25	255.0	10.04	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	183PA6MPBH16111N00
					150.0	5.91	ø40.0/70.0*	1.57/2.76*	183PA6MPBH16111N01

* Minimum/maximum round bore.

Placement of Wearstrips and Sprockets

No. of teeth	Minimum B-dimension		Wearstrip distance A	
	mm	in.	mm	in.
6	59.5	2.34	36.2	1.43
8	75.1	2.96	53.6	2.11
10	91.0	3.58	70.5	2.78
12	107.0	4.21	87.2	3.43
16	139.2	5.48	120.2	4.73



Width of sprockets: 42.3 mm (1.67 in.)
Tooth width: 9.5 mm (0.37 in.)
Standard Material: PA6

Other sprocket sizes are available upon request. Two-part sprockets available upon request.

Max. Load per Sprocket

Belt material	POM	
	N	lbf
uni RTB with snub roller	2000	450
uni RTB with snub roller	1250	281

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