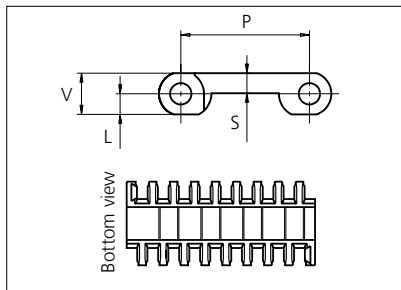




Plastic Modular Belt

Series **uni OPB 8** Type **20%**



Straight running belt
 Nominal pitch: 50.0 mm (1.97 in)
 Surface type: Flat
 Surface opening: 20%
 Backflex radius: 75.0 mm (3.00 in)
 Pin diameter: 8 mm (1.97 in)

*uni-chains recommends this travel direction. However, travel in both directions is possible.

Recommended belt material & color	POM-D W		mm	in		mm	in
		P (Nominal)	50.0	1.97	V	16.0	0.63
Recommended pin and lock material & color	PP W						
		L	8.0	0.31	S	7.8	0.31

Non standard material and color: See uni Material and Color Overview.

Alternative materials: Belt: POM-LF, POM-SLF, PP, PE, PA6.6 and PA6.6H

Rodlock: PP **W**

Endlock: PP **W** **G** **B** and PE **W** **B**

Lockpin: PE **W** PA6.6 **N** PP **W**

Pin: PP **W** PE **W** SS304 and SS316

Belt width		Permissible tensile force (Belt/pin material)						Belt weight (Belt/pin material)						*Min. No. drive sprocket per shaft	Number of wear strips (Min. No.)	
		POM-D/PA6.6		PP/PA6.6		PE/PA6.6		POM-D/PA6.6		PP/PA6.6		PE/PA6.6			**Carry (pcs)	**Return (pcs)
mm	in	N	lbf	N	lbf	N	lbf	kg/m	lb/ft	kg/m	lb/ft	kg/m	lb/ft			
118	4.6	2596	584	1298	292	779	175	1.2	0.80	0.8	0.55	0.9	0.58	2	2	2
151	5.9	3322	747	1661	373	997	224	1.5	1.02	1.0	0.70	1.1	0.74	2	2	2
185	7.3	4070	915	2035	457	1221	274	1.9	1.26	1.3	0.86	1.4	0.91	2	2	2
302	11.9	6644	1494	3322	747	1993	448	3.1	2.05	2.1	1.40	2.2	1.48	3	3	2
453	17.8	9966	2240	4983	1120	2990	672	4.6	3.07	3.1	2.10	3.3	2.22	4	4	2
604	23.8	13288	2987	6644	1494	3986	896	6.1	4.10	4.2	2.80	4.4	2.96	5	5	3
755	29.7	16610	3734	8305	1867	4983	1120	7.6	5.12	5.2	3.50	5.5	3.70	6	6	3
906	35.7	19932	4481	9966	2240	5980	1344	9.2	6.15	6.3	4.20	6.6	4.44	7	7	4
1057	41.6	23254	5227	11627	2614	6976	1568	10.7	7.17	7.3	4.90	7.7	5.19	8	8	4
1208	47.6	26576	5974	13288	2987	7973	1792	12.2	8.20	8.3	5.60	8.8	5.93	9	9	5
1359	53.5	29898	6721	14949	3361	8969	2016	13.7	9.22	9.4	6.30	9.9	6.67	10	10	5
1510	59.4	33220	7468	16610	3734	9966	2240	15.3	10.25	10.4	7.00	11.0	7.41	11	11	6
1661	65.4	36542	8215	18271	4107	10963	2464	16.8	11.27	11.5	7.70	12.1	8.15	12	12	6

Additional standard belt widths are available in steps of 151.0 mm (5.94 in.) Additional non-standard belt widths are available in steps of 33.6 mm (1.32 in.)

2567	101.1	56474	12695	28237	6348	16942	3809	25.9	17.42	17.7	11.90	18.7	12.59	18	18	9
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Additional standard belt widths are available in steps of 151.0 mm (5.94 in.) Additional non-standard belt widths are available in steps of 33.6 mm (1.32 in.)

2869	113.0	63118	14189	31559	7094	18935	4257	29.0	19.47	19.8	13.30	20.9	14.08	20	20	10
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General belt tolerance is +0/-0.4% at 23°C/73°F and 50% RH. For exact belt width contact Customer Service. Non standard belt width on request.

*Max. Load per Drive Sprocket. Belt material: POM 2500 N (562 lbf), PP 1200 N (270 lbf), PE 500 N (270 lbf)

**Max. Spacing between wear strips, Carry: 152 mm (6 in.); Return: 304 mm (12 in.)

= Single Link



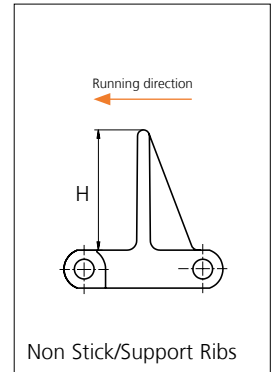
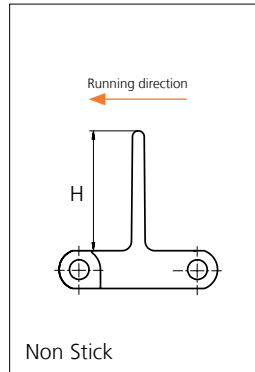
NON STANDARD

STRAIGHT RUNNING

PITCH 50.0 MM/1.97 IN

Accessories

Flight

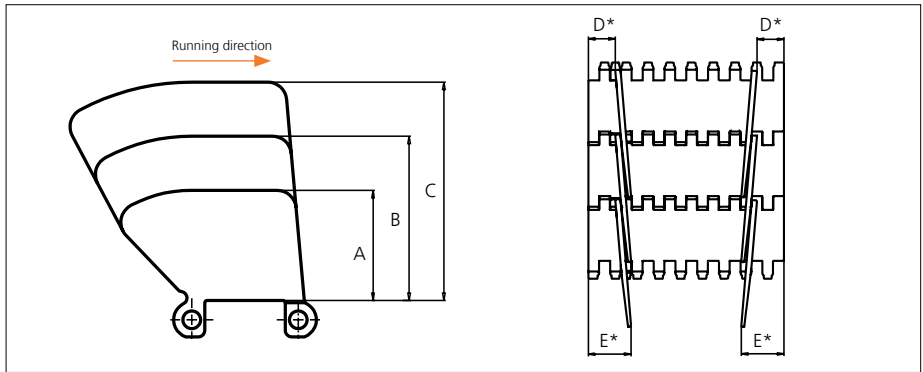


Type	Recommended Material & color	H		Link size	Width		Indent	
		mm	in		mm	in	mm	in
Non Stick	PP-HW B	50.8	2.00	K600	151.0	5.94	0.0	0.00
Non Stick/ Support Ribs		76.2	3.00					
		101.6	4.00					

Non Standard material and color: See uni Material and Color Overview.

Accessories

Side Guard



Type	Recommended Material & color	A		B		C		D*		E*	
		mm	in	mm	in	mm	in	mm	in	mm	in
Closed	PP-HW B	51.8	2.04	77.2	3.04	102.6	4.04	21.0	0.83	34.0	1.34

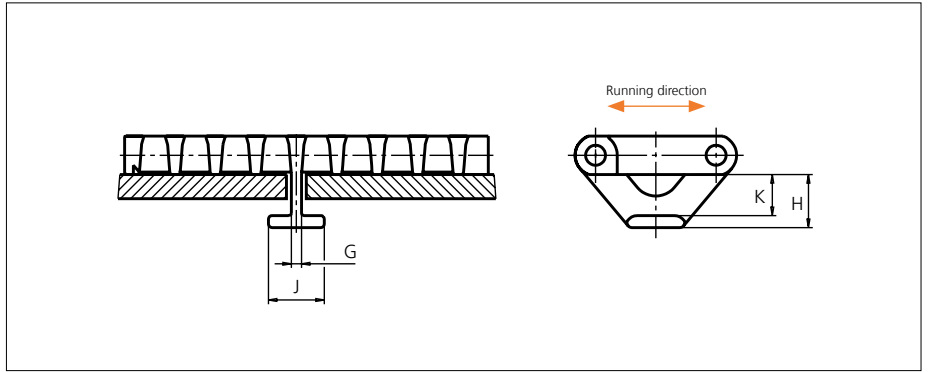
* Min. indent Increment : 8.4 mm (0.33 in)

Note: Backflex radius when side guards are used: 200.0 mm (7.90 in)

Non Standard material and color: See uni Material and Color Overview.

Accessories

Tab



Type	Recommended material & color	G		H		J		K	
		mm	in	mm	in	mm	in	mm	in
Bottom Hold Down	POM-D N	4.2	0.17	22.0	0.87	23.2	0.92	17.0	0.67
	POM-LF B								
	PP W								

Non Standard material and color: See uni Material and Color Overview.

Sprocket

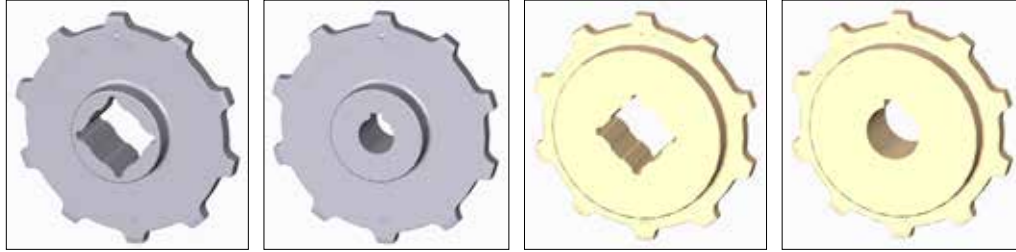
No. of teeth	Bore size													Overall diameter		Pitch-diameter		Hub-diameter		Dimension A		Dimension B		Single row/Two way	Double row/Two way	Molded PA6 LG	Machined PA6 N
	Pilot Bore	in	0.75	0.78	0.98	1.00	1.18	1.25	1.50	1.57	2.36	2.50	3.54														
	mm	19.1	20.0	25.0	25.4	30.0	31.8	38.1	40.0	60.0	63.5	90.0	mm	in	mm	in	mm	in	mm	in							
Z06	x				●	●	●	■	■				94.5	3.72	100.3	3.95	65	2.56	35.5	1.40	58.6	2.31	x		x		
Z08	x				●	●	●	■	■				129	5.08	131.1	5.16	65	2.56	52.6	2.07	74	2.91	x		x		
Z10	x					●	●	■	■				160.1	6.30	162.4	6.39	65	2.56	69.2	2.72	89.7	3.53	x		x		
Z12	x					●	●	■	■				191.5	7.54	193.9	7.63	65	2.56	85.7	3.37	105.5	4.15	x		x		
Z13	x					●		■	■				207.3	8.16	209.7	8.26	72	2.83	93.8	3.69	113.4	4.46	x		x		
Z13											■		207.3	8.16	209.7	8.26	150	5.91	93.8	3.69	113.4	4.46	x			x	
Z16	x					●		■	■		■		254.8	10.03	257.3	10.13	200	7.87	118.2	4.65	137.1	5.40	x			x	

■ Molded sprocket

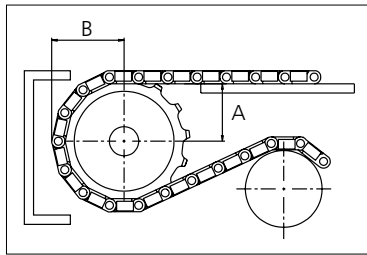
● Molded sprocket

■ Machined sprocket

● Machined sprocket



Non standard material and color: See uni Material and Color Overview.



Other sprocket sizes are available upon request.
 Two-part sprocket are available upon request.
 Round bores are always delivered with keyway.
 Other bore sizes are available upon request.
 uni Retainer Rings: See uni Retainer Ring data sheet
 Width of tooth = 11.0 mm (0.43 in)
 Width of sprocket = 42.3 mm (1.67 in)

Max load per sprocket shown does not take bore size into account.
 Please also ensure that sufficient size shaft is chosen for corresponding load.

For correct sprocket position: See uni Assembly Instructions for uni OPB.
 For more detailed sprocket information, contact Customer Service.

uni OPB 8 20%/160707



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