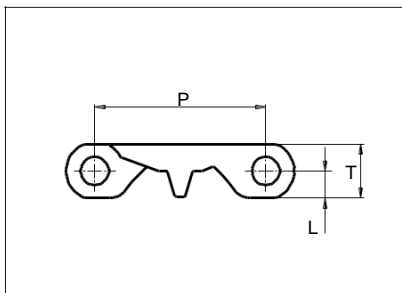




Plastic Modular Belt

Series **uni MPB** Type **20%**



Straight running belt
 Nominal pitch: 50.8 mm (2.00 in)
 Surface type: Flat
 Surface opening: 20%
 Backflex radius: 65.0 mm (2.6 in)
 Pin diameter: 8 mm (0.31 in)

Belt material & color	PP W	PE-I N	mm	in	mm	in		
	Pin material & color	PP W					PE W	
			P (Nominal)	50.8	2.00	T	16.0	0.63
			L	8.0	0.31	-	-	-

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

Alternative pin and lock materials: Pin: PA6.6 N PP W PE W PBT LG SS304 Lockpin: PA6.6 B PBT LG Trilock: PA6.6 N

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.)	
		PP/PP		PE-I/PE		PP/PP		PE-I/PE			**Carry (pcs)	**Return (pcs)
mm	in	N	lbf	N	lbf	kg/m	lb/ft	kg/m	lb/ft			
68	2.7	1088	245	884	199	0.5	0.34	0.5	0.36	2	2	2
84	3.3	1341	302	1090	245	0.6	0.42	0.7	0.45	2	2	2
151	5.9	2416	543	1963	441	1.1	0.75	1.2	0.80	2	2	2
185	7.3	2953	664	2399	539	1.4	0.92	1.5	0.98	2	2	2
202	8.0	3232	727	2626	590	1.5	1.00	1.6	1.07	2	2	2
252	9.9	4032	906	3276	736	1.9	1.25	2.0	1.34	2	2	2
302	11.9	4832	1086	3926	883	2.2	1.50	2.4	1.60	3	3	2
353	13.9	5648	1270	4589	1032	2.6	1.76	2.8	1.87	3	3	2
403	15.9	6448	1450	5239	1178	3.0	2.00	3.2	2.14	3	3	2
453	17.8	7248	1629	5889	1324	3.4	2.25	3.6	2.41	4	4	2
504	19.8	8064	1813	6552	1473	3.7	2.51	4.0	2.68	4	4	2
554	21.8	8864	1993	7202	1619	4.1	2.76	4.4	2.94	4	4	2
604	23.8	9664	2172	7852	1765	4.5	3.00	4.8	3.21	5	5	3

Additional standard belt widths are available in steps of 50.3 mm (1.98 in.) Additional non-standard belt widths are available in steps of 16.8 mm (0.66 in.)

1963	77.3	31408	7061	25519	5737	14.5	9.76	15.5	10.42	14	14	7
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Additional standard belt widths are available in steps of 50.3 mm (1.98 in.) Additional non-standard belt widths are available in steps of 16.8 mm (0.66 in.)

2970	116.9	47520	10682	38610	8680	22.0	14.77	23.5	15.77	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: PP with snub roller 2000 N (450 lbf) without snub roller 1250 N (281 lbf).

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

— = Single Link



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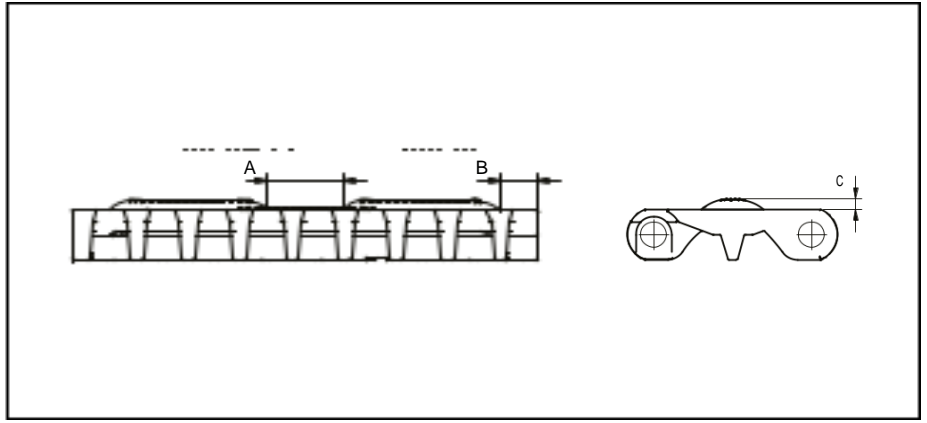
STANDARD

STRAIGHT RUNNING

PITCH 50.8 MM/2.00 IN

Accessories

Rubber Top



Type	Belt Material & color	Rubber Material & color	A		B		C		Link size	Width	
			mm	in	mm	in	mm	in		mm	in
Curved Rough	POM-DI W	01 N	24.0	0.94	10.0	0.39	3.5	0.14	K600	151.0	5.94

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

Accessories

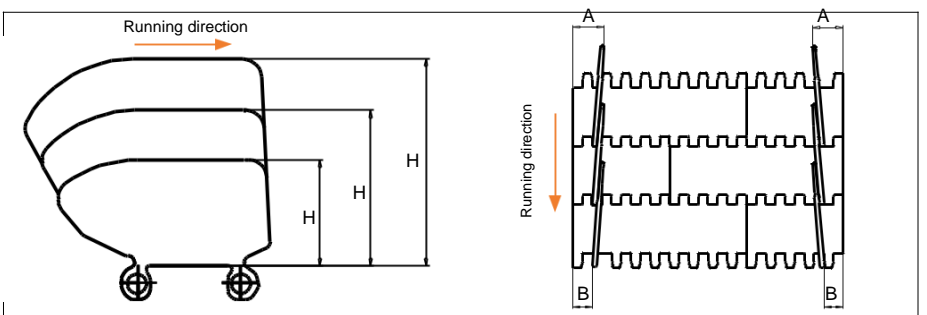
Flight



See separate uni MPB series Flight datasheet.

Accessories

Side Guard



Type	Side Guard Material & color	H		A		B	
		mm	in	mm	in	mm	in
Closed	PE-I B N PP-I W B	50.8	2.00	32.0	1.26	16.0	0.63
		76.2	3.00				
		101.6	4.00				

*34.0 mm (1.34 in) combined with flight. Increment: 8.4 mm (0.33 in).

Note: Backflex radius when Side Guard are used: 200.0 mm (7.90 in)

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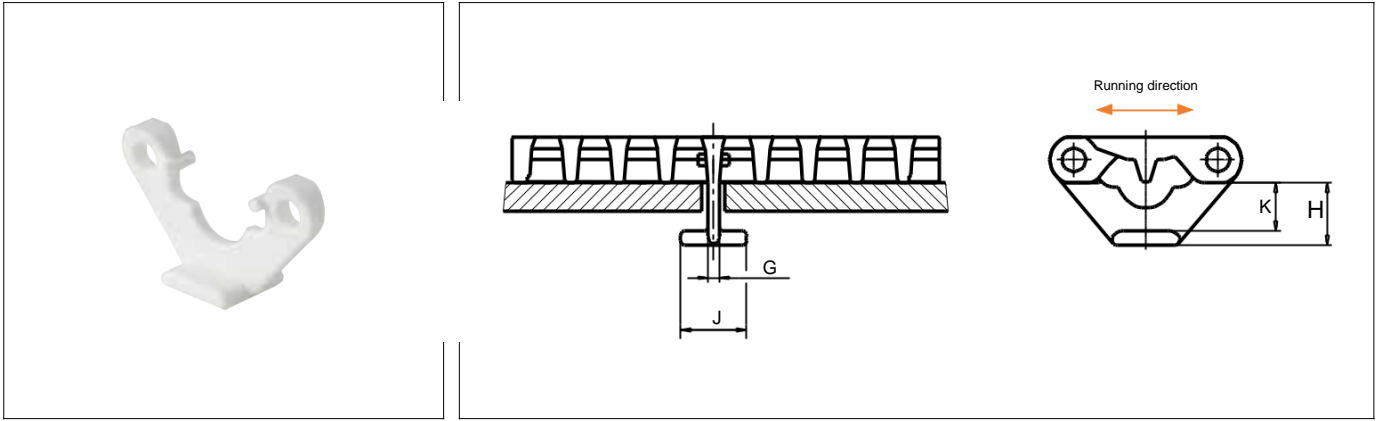


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Accessories

Tab



Type	Tab Material & color	G		J		K		H	
		mm	in	mm	in	mm	in	mm	in
Bottom Hold Down	POM-DI w	4.2	0.17	23.2	0.91	17.0	0.67	22.0	0.87

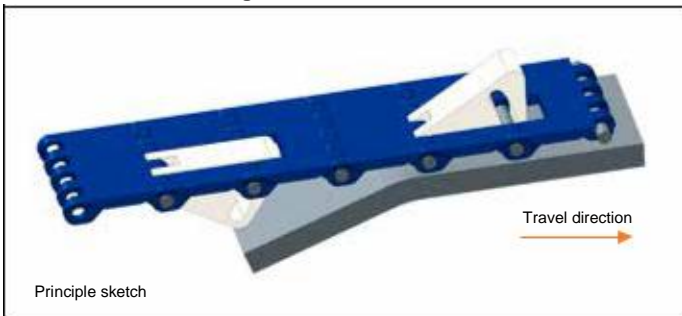
Note: When using taps, please verify sufficient clearance to the shaft. Max. shaft diameter = Sprocket pitch diameter - 63.5 mm (2.50 in). When using square shafts, please verify that the diagonal does not exceed max. diameter. Example: Sprocket z = 6: Max. shaft diameter 101.6 - 63.5 = \varnothing 38.1 mm (4.00 - 2.50 = \varnothing 1.4 in).

Note: When using a belt system with tabs, the temperature should be constant. Please note that the tabs are not always placed in the middle of the belt.

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

Accessories

Non standard uni AmFlight



Other non standard option: See uni Amflight Overview.

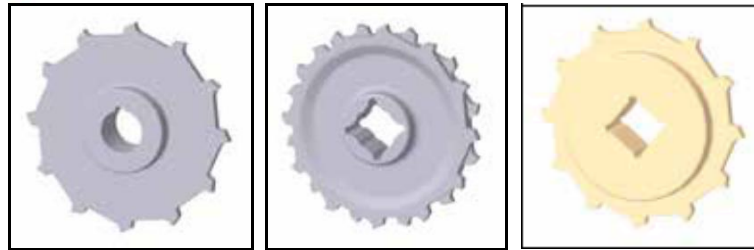
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Sprocket

No of teeth	Bore size								Overall diameter		Pitch-diameter	Hub-diameter	Dimension		Dimension		Molded	Machined		
	Pilot bore	in		mm		mm	in	mm					in	mm	in	mm			in	mm
		in	mm	mm	in				mm	in	mm	in								
Z06	✓	●	●	●	■	■			99.5	3.92	101.6	4.00	65.0	2.56	36.0	1.42	59.3	2.33	✓	✓
Z08	✓	●	●	●	■	■	■		132.9	5.23	132.8	5.23	70.0	2.75	53.3	2.10	74.9	2.94	✓	✓
Z10	✓	●	●	●	■	■	■	■	166.3	6.55	164.4	6.47	170.0 2120.0	2.75 4.72	70.2	2.76	90.7	3.57	✓	✓
Z12	✓	●	●	●	■	■	■	■	198.6	7.82	196.3	7.73	170.0 2120.0	2.75 4.72	86.8	3.42	106.6	4.19	1+2 ✓	2+3 ✓
Z16	✓	●	●	●	■	■	■	■	263.8	10.39	260.4	10.25	150.0 2164.0 3200.0	5.90 6.45 7.87	119.7	3.42	106.6	4.19	1 ✓	2+3 ✓
																4.71	138.7	5.46	1 ✓	2+3 ✓

● Molded sprocket ■ Molded sprocket ■ Machined sprocket



Other sprocket sizes are available upon request.

Other bore sizes on sprockets are available upon request.

Round bores are always delivered with keyway.

Max. load per sprocket shown does not take bore size into account.

Please also ensure that sufficient size shaft is chosen for corresponding load.

Width of tooth = Single row: 9.5 mm (0.37 in)

= Double row: 17.8 mm (0.70 in)

Width of One-part sprocket = Single row: 42.3 mm (1.66 in)

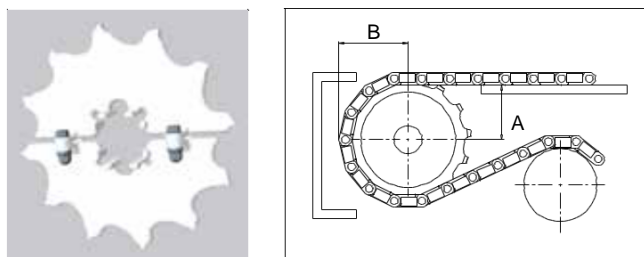
= Double row: 42.3 mm (1.66 in)

= 3Double row: 50.0 mm (1.96 in)

uni UltraClean Two-Part Sprocket

No.	Bore size			Pitch-diameter		Hub-diameter		Dimension on A		Dimension on B		Single row/One way	Moulded PA6 LW		
	mm	in	mm	mm	in	mm	in	mm	in	mm	in				
Z8	138.	040.	60.0	132.9	5.23	132.8	5.23	80.0	3.15	53.3	2.10	74.9	2.94	✓	■
Z10	1	1	2	166.3	6.55	164.4	6.47	126.0 2118.0	4.96 24.65	70.2	2.76	90.7	3.57	✓	■
Z12	1	1	2	198.6	7.82	196.3	7.73	126.0 2118.0	4.96 24.65	86.8	3.42	106.6	4.19	✓	■

■ Moulded uni UltraClean TwoPart Sprocket



Width of UltraClean Two-part sprocket = Single row: 44.0 mm (1.73 in)

Width of UltraClean Two-part sprocket, tooth = Single row: 9.5 mm (0.37 in)

uni Retainer Rings: See uni Retainer Ring data sheet.

For correct sprocket position: See uni Assembly Instructions for uni MPB.

For more detailed sprocket information, contact Customer Service.

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