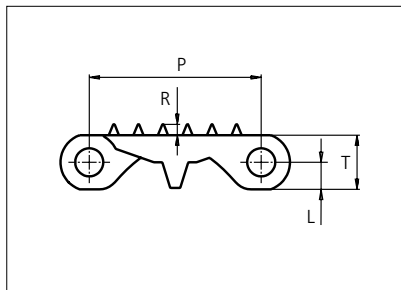
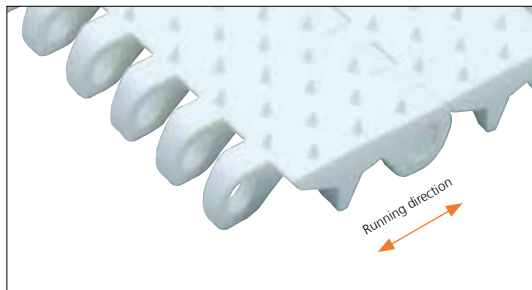




# Plastic Modular Belt

Series **uni MPB** Type **G**



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

Belt material & color	POM-DI <span style="border: 1px solid black; padding: 0 2px;">W</span>		mm	in		mm	in
		P (Nominal)	50.8	2.00	R	3.2	0.13
Pin material & color	PP <span style="border: 1px solid black; padding: 0 2px;">W</span>						
		L	8.0	0.31	T	16.0	0.63

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

uni MPB G is available with a molded indent of 35.0 mm (1.38 in) in both sides.

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-DI/PP		POM-DI/PP			**Carry (pcs)	**Return (pcs)
mm	in	N	lbf	kg/m	lb/ft			
151	5.9	4153	933	1.8	1.21	2	2	2
202	8.0	5555	1249	2.4	1.62	2	2	2
252	9.9	6930	1558	3.0	2.02	2	2	2
302	11.9	8305	1867	3.6	2.42	3	3	2
353	13.9	9708	2182	4.2	2.82	3	3	2
403	15.9	11083	2491	4.8	3.22	3	3	2
453	17.8	12458	2800	5.4	3.62	4	4	2
504	19.8	13860	3116	6.0	4.03	4	4	2
554	21.8	15235	3425	6.6	4.43	4	4	2
604	23.8	16610	3734	7.2	4.83	5	5	3
655	25.8	18013	4049	7.8	5.24	5	5	3
705	27.8	19388	4358	8.4	5.64	5	5	3
755	29.7	20763	4667	9.0	6.04	6	6	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	53983	12135	23.4	15.70	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	81675	18361	35.3	23.75	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-DI 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).

W = Single Link



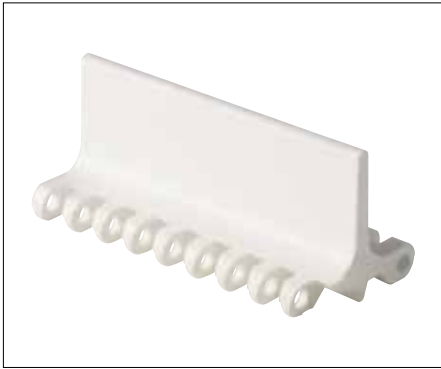
STANDARD

STRAIGHT RUNNING

PITCH 50.8 MM/2.00 IN

## Accessories

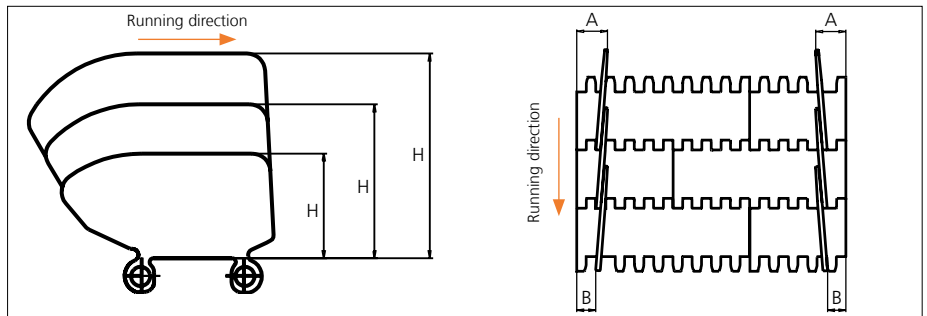
### Flight



See separate uni MPB series Flight datasheet.

## Accessories

### Side Guard



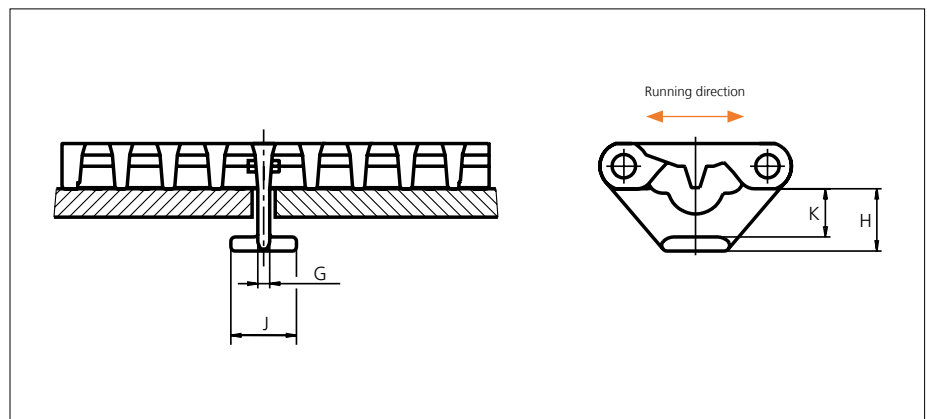
Type	Side Guard Material & color	H		A		B	
		mm	in	mm	in	mm	in
Closed	PE-I <span style="border: 1px solid black; padding: 0 2px;">B</span> <span style="border: 1px solid black; padding: 0 2px;">N</span>	50.8	2.00	32.0	1.26	16.0	0.63
	PP-I <span style="border: 1px solid black; padding: 0 2px;">W</span> <span style="border: 1px solid black; padding: 0 2px;">B</span>	76.2	3.00				
		101.6	4.00				

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

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

## Accessories

### Tab



Type	Tab Material & color	G		J		K		H	
		mm	in	mm	in	mm	in	mm	in
Bottom Hold Down	POM-DI <span style="border: 1px solid black; padding: 0 2px;">W</span>	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).

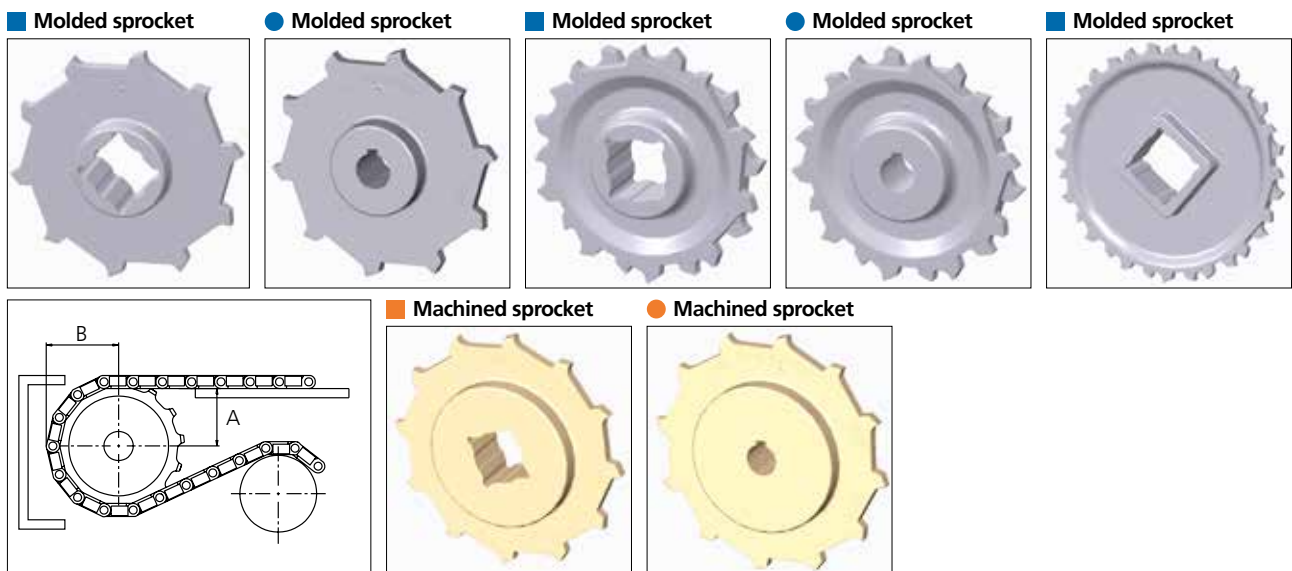
Note: When using a belt system with tabs, the temperature should be constant. Please note that the tabs are not always placed in the middle of the belt.

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

# Sprocket

No of teeth	Pilot bore	Bore size											Overall diameter		Pitch-diameter		Hub-diameter		Dimension A		Dimension B		Single row/One way	Double row/Two way	Molded PA6 LG	Machined PA6 N
		in	0.78	0.98	1.00	1.18	1.25	1.50	1.57	2.36	2.50	3.54														
		mm	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				●	●	●	■	●	■			99.5	3.92	101.6	4.00	65.0	2.56	36.0	1.42	59.3	2.33	x		x	
Z08	x				●	●	●	■	■	●*			132.9	5.23	132.8	5.23	70.0	2.75	53.3	2.10	74.9	2.94	x	x*	x	
Z10	x					●	●	■	■	■			166.3	6.55	164.4	6.47	70.0	2.75	70.2	2.76	90.7	3.57	x	x	x	
Z10											■	■	166.3	6.55	164.4	6.47	120.0	4.72	70.2	2.76	90.7	3.57	x	x	x	
Z12	x				●	●	■	■	■	■			198.6	7.82	196.3	7.73	70.0	2.75	86.8	3.42	106.6	4.19	x	x	x	
Z12											■	■	198.6	7.82	196.3	7.73	120.0	4.72	86.8	3.42	106.6	4.19	x	x	x	
Z16					●	●	■	■	■	■	■	■	263.8	10.39	260.4	10.25	160.0	6.30	119.7	4.71	138.7	5.46		x	x	
Z16	x				●	●	■	■	■	■	■	■	263.8	10.39	260.4	10.25	150.0	5.90	119.7	4.71	138.7	5.46	x			x

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 sprocket = Single row: 42.3 mm (1.66 in)

Double row: 50.0 mm (1.96 in)

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

Double row: 17.0 mm (0.66 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 MPB.

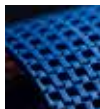
For more detailed sprocket information, contact Customer Service.



Conveyor Belts



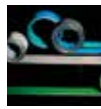
Seamless Belts



Modular Belts



Timing Belts



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