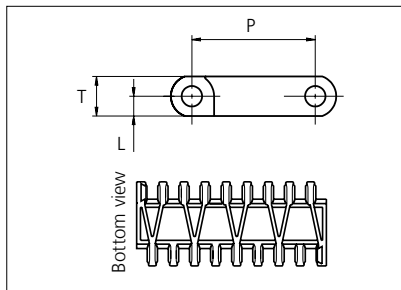




# Plastic Modular Belt

Serie **uni OPB 4V** Type **23% Fine-meshed**



Straight running belt  
 Nominal pitch: 50.0 mm (1.97 in)  
 Surface type: Flat  
 Surface opening: 23%  
 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.

<b>Belt material &amp; color</b>	PP-HW <b>B</b>	PP <b>W</b>		<b>mm</b>	<b>in</b>		<b>mm</b>	<b>in</b>	
<b>Pin and lock material &amp; color</b>	PP-HW <b>LB</b>	PP <b>W</b>		<b>P (Nominal)</b>	50.0	1.97	<b>T</b>	16.0	0.63
				<b>L</b>	8.0	0.31	-	-	-

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

Alternative pin and lock materials: Trilock: PP-HW **LB** Endlock: PP **W** **G** **B** and PE **W** **B** Lockpin: PE **W** PA6.6 **N** **B** and PBT **LG**  
 Pin: PP **W** PE **W** PBT **LG** 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.)	
		PP-HW/PP-HW		PP/PP-HW		PP-HW/PP-HW		PP/PP-HW			**Carry (pcs)	**Return (pcs)
mm	in	N	lbf	N	lbf	kg/m	lb/ft	kg/m	lb/ft			
118	4.6	1296	291	1296	291	0.8	0.54	0.8	0.54	2	2	2
152	6.0	1672	376	1672	376	1.0	0.69	1.0	0.69	2	2	2
186	7.3	2046	460	2046	460	1.3	0.85	1.3	0.85	2	2	2
303	11.9	3333	749	3333	749	2.1	1.38	2.1	1.38	3	3	2
455	17.9	5005	1125	5005	1125	3.1	2.08	3.1	2.08	4	4	2
606	23.9	6666	1499	6666	1499	4.1	2.77	4.1	2.77	5	5	3
758	29.8	8338	1874	8338	1874	5.2	3.46	5.2	3.46	6	6	3
909	35.8	9999	2248	9999	2248	6.2	4.15	6.2	4.15	7	7	4
1061	41.8	11671	2624	11671	2624	7.2	4.85	7.2	4.85	8	8	4
1212	47.7	13332	2997	13332	2997	8.2	5.54	8.2	5.54	9	9	5
1364	53.7	15004	3373	15004	3373	9.3	6.23	9.3	6.23	10	10	5
1515	59.6	16665	3746	16665	3746	10.3	6.92	10.3	6.92	11	11	6
1667	65.6	18337	4122	18337	4122	11.3	7.62	11.3	7.62	12	12	6

Additional standard belt widths are available in steps of 151.5 mm (5.96 in). Additional non-standard belt widths are available in steps of 33.7 mm (1.33 in).

2576	101.4	28336	6370	28336	6370	17.5	11.77	17.5	11.77	18	18	9
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Additional standard belt widths are available in steps of 151.5 mm (5.96 in). Additional non-standard belt widths are available in steps of 33.7 mm (1.33 in).

2879	113.3	31669	7119	31669	7119	19.6	13.16	19.6	13.16	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.

Belt widths in PP-HW is 0.4 % wider than the belt widths in the table above.

\*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



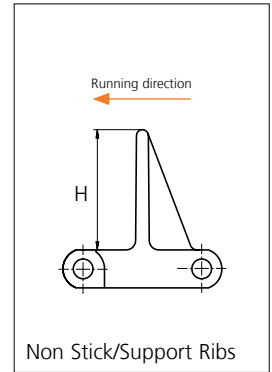
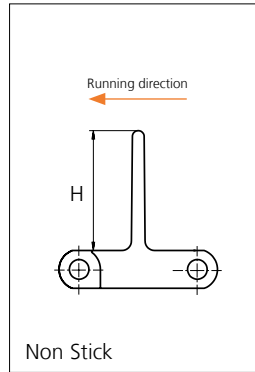
STANDARD

STRAIGHT RUNNING

PITCH 50.0 MM/1.97 IN

## Accessories

### Flight

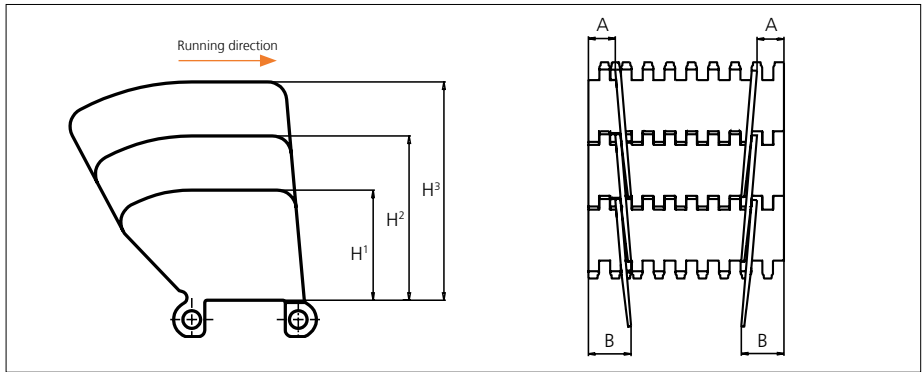


Type	Flight material & color	H		Link size	Width		Indent	
		mm	in		mm	in	mm	in
Non Stick	PP-HW <b>B</b>	50.8	2.00	K600	151.0	5.94	0.0	0.00
Non Stick/ Support Ribs	PP <b>W</b>	76.2	3.00					
		101.6	4.00					

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

## Accessories

### Side Guard



Type	Material & color	H <sup>1</sup>		H <sup>2</sup>		H <sup>3</sup>		A*		B*	
		mm	in	mm	in	mm	in	mm	in	mm	in
Closed	PP-HW <b>B</b> PP <b>W</b>	51.8	2.04	77.2	3.04	102.6	4.04	21.0	0.83	34.0	1.34

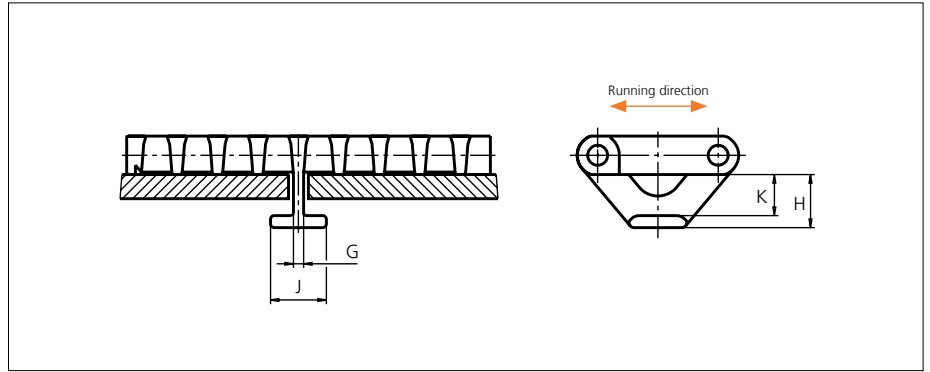
\* Min. indent Increment : 8.4 mm (0.33 in).

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/NON STANDARD

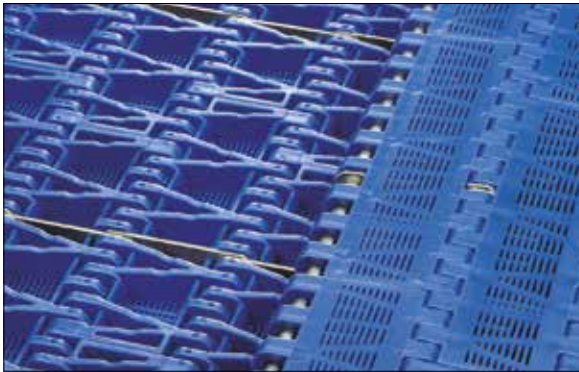


Type	Belt material & color	G		H		J		K	
		mm	in	mm	in	mm	in	mm	in
Bottom Hold Down	POM-D <span style="border: 1px solid black; padding: 0 2px;">N</span>	4.2	0.17	22.0	0.87	23.2	0.92	17.0	0.67
	POM-LF <span style="border: 1px solid black; padding: 0 2px;">B</span>								
	PP <span style="border: 1px solid black; padding: 0 2px;">W</span>								

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

## Accessories

### Reinforcement Link



The use of uni-chains belts with the SS reinforcement /pitch control links in blanchers, cookers and other high temperature applications will reduce belt elongation due to temperature by more than 90%. This will simplify the belt take-up system and reduce maintenance.

uni-chains recommends one reinforcement link per K600 module.

Type	Material & color	N/row	Lbf/row
Steel Link	SS316	2500	562

Note: Reinforcement links require the use of SS pins.

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

## Sprocket

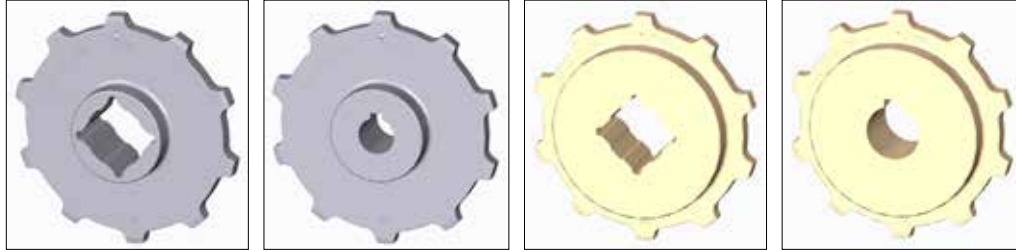
No of teeth	Bore size													Overall diameter		Pitch-diameter		Hub-diameter		Dimension A		Dimension B		Single row/Two way	Double row/Two way	Molded PA6 LG	Machined PA6 N
	Pilot Bore	in	0.75	0.78	0.98	1.00	1.18	1.25	1.50	1.57	2.36	2.50	3.54														
	mm	19.1	20.0	25.0	25.4	30.0	31.8	38.1	40.0	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

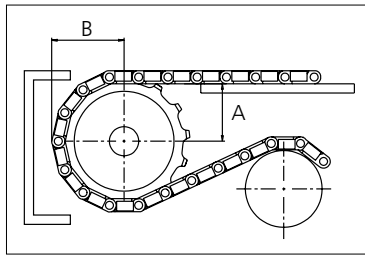
● Molded sprocket

■ 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 4V 23% Fine Meshed /160707



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