

Paso de 50.0 mm (1.97 pulgadas)



uni OPB – La banda con una superficie abierta superior e inferior única

La banda de paso de 2 pulgadas uni OPB se ha desarrollado para los procesos de cocción, escaldado y pasteurizado en la industria alimentaria. Sus diferentes aperturas le dotan de un alto rendimiento con varios productos alimenticios.

La banda uni OBP se usa normalmente en las siguientes industrias/aplicaciones:

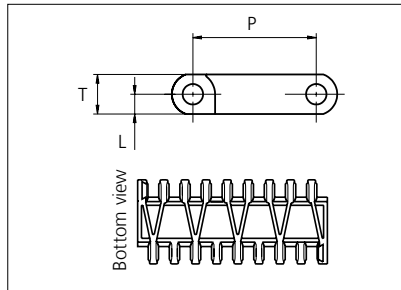
- Fruta y verdura, incluyendo elevadores, escaldadores, líneas de enfriado y pasteurizadores
- Pasta, incluyendo escaldadores, pasteurizadores y líneas de enfriado
- Agricultura (maíz y arroz), incluyendo elevadores, escaldadores y líneas de enfriado
- Bebidas, incluyendo mesas de acumulación, pasteurizadores y paletizadoras

Características del producto y ventajas de funcionamiento:

- Distintas aperturas, incluyendo mallas de apertura fina para drenaje de agua
- La opción de control del paso / mallas de refuerzo reduce el alargamiento hasta un 90% en aplicaciones a alta temperatura aplicaciones
- Parte inferior resistente al desgaste y a los impactos
- Soportes reforzados, para elevadores con carga y transportadores inclinados
- Peines para una transferencia sin problemas

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: 8.0 mm (1.97 in)

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

Belt material & color	PP-HW B	PP W		mm	in		mm	in
Pin and lock material & color	 PP-HW LB	 PP W	P (Nominal)	50.0	1.97	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: 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
153	6.0	1683	378	1683	378	1.0	0.70	1.0	0.70	2	2	2
186	7.3	2046	460	2046	460	1.3	0.85	1.3	0.85	2	2	2
305	12.0	3355	754	3355	754	2.1	1.39	2.1	1.39	3	3	2
457	18.0	5027	1130	5027	1130	3.1	2.09	3.1	2.09	4	4	2
609	24.0	6699	1506	6699	1506	4.1	2.78	4.1	2.78	5	5	3
761	30.0	8371	1882	8371	1882	5.2	3.48	5.2	3.48	6	6	3
913	35.9	10043	2258	10043	2258	6.2	4.17	6.2	4.17	7	7	4
1065	41.9	11715	2634	11715	2634	7.2	4.87	7.2	4.87	8	8	4
1218	48.0	13398	3012	13398	3012	8.3	5.57	8.3	5.57	9	9	5
1370	53.9	15070	3388	15070	3388	9.3	6.26	9.3	6.26	10	10	5
1522	59.9	16742	3764	16742	3764	10.3	6.96	10.3	6.96	11	11	6
1674	65.9	18414	4139	18414	4139	11.4	7.65	11.4	7.65	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).

2587	101.9	28457	6397	28457	6397	17.6	11.82	17.6	11.82	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).

2891	113.8	31801	7149	31801	7149	19.7	13.21	19.7	13.21	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.

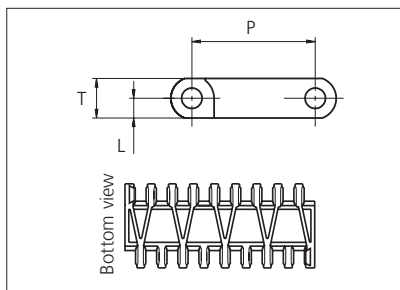
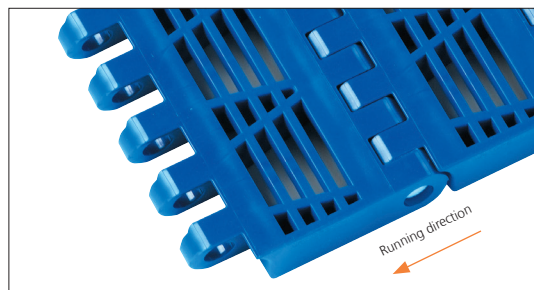
*Max. Load per Drive Sprocket. Belt material: POM 2500 N (562 lbf), PP 1200 N (270 lbf), PE 500 N (270 lbf)

**Max. Spacing between wear strips, Carry: 152.0 mm (6.00 in); Return: 304.0 mm (12.00 in)

= Single Link

Plastic Modular Belt

Serie **uni OPB 4V** Type **23% Open**



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: 8.0 mm (1.97 in)

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

Note: uni OPB 23% 4V are listed in the USDA "Accepted Meat and Poultry Equipment" publication as accepted food contact.

Belt material & color	PP-HW B		mm	in		mm	in
Pin and lock material & color	PP-HW LB	P (Nominal)	50.0	1.97	T	16.0	0.63
		L	8.0	0.31	-	-	-

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

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-HW/PP-HW			**Carry (pcs)	**Return (pcs)
mm	in	N	lbf	kg/m	lb/ft			
118	4.6	1298	292	0.8	0.54	2	2	2
151	5.9	1661	373	1.0	0.69	2	2	2
185	7.3	2035	457	1.3	0.85	2	2	2
302	11.9	3322	747	2.1	1.38	3	3	2
453	17.8	4983	1120	3.1	2.07	4	4	2
604	23.8	6644	1494	4.1	2.76	5	5	3
755	29.7	8305	1867	5.1	3.45	6	6	3
906	35.7	9966	2240	6.2	4.14	7	7	4
1057	41.6	11627	2614	7.2	4.83	8	8	4
1208	47.6	13288	2987	8.2	5.52	9	9	5
1359	53.5	14949	3361	9.2	6.21	10	10	5
1510	59.4	16610	3734	10.3	6.90	11	11	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	28237	6348	17.5	11.73	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	31559	7094	19.5	13.11	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: 152.0 mm (6.00 in); Return: 304.0 mm (12.00 in).

 = Single Link

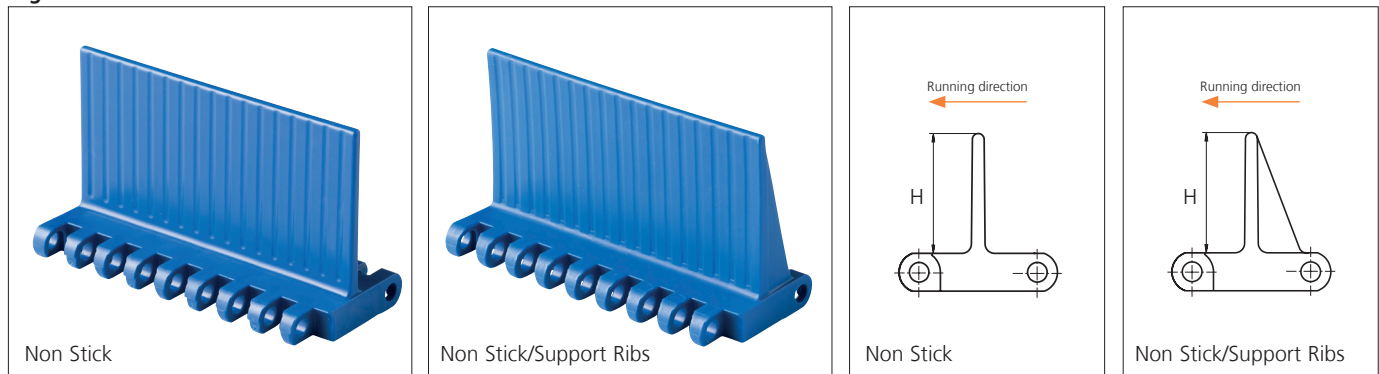
STANDARD

STRAIGHT RUNNING

PITCH 50.0 MM/1.97 IN

Accessories

Flight

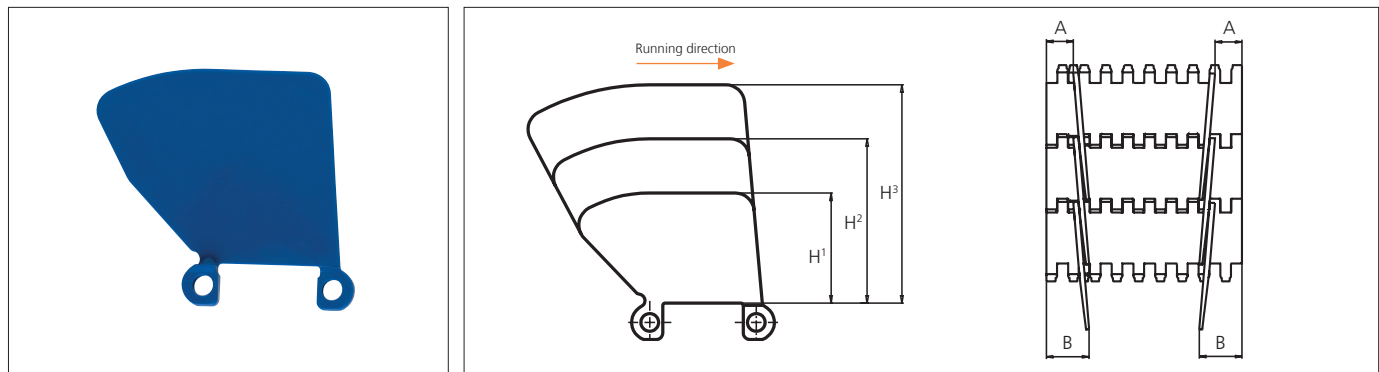


Type	Flight material & color	H		Link size	Width		Indent	
		mm	in		mm	in	mm	in
Non Stick	PP-HW B	50.8	2.00	K600	151.0	5.94	0.0	0.00
Non Stick/Support Ribs		76.2	3.00					
		101.6	4.00					

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

Accessories

Side Guard



Type	Material & color	H ¹		H ²		H ³		A*		B*	
		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

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

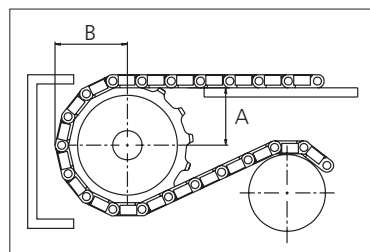
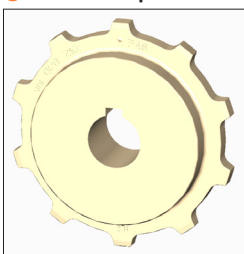
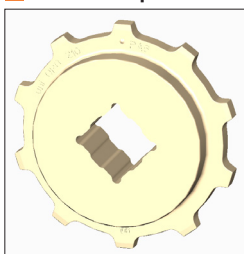
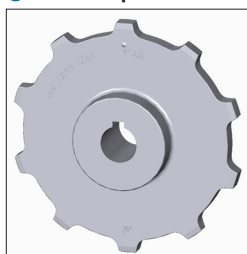
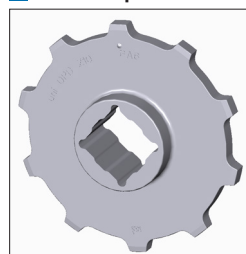
No of teeth	Bore size													Overall diameter		Pitch-diameter		Hub-diameter		Dimension A		Dimension B		Single row/Two way	Double row/Two way	Molded PA6 LG	Machined PA6 N	
	Pilot Bore	in	0.75	0.78	0.98	1.00	1.18	1.25	1.50	1.57	2.36	2.50	3.54															
														mm	19.1	20.0	25.0	25.4	30.0	31.8	38.1	40.0	60.0	63.5	90.0	mm	in	mm
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



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.

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



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