

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:

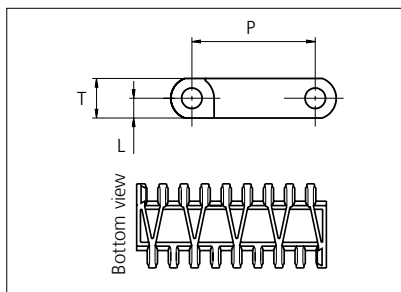
- Fruta y verdura, incluyendo elevadores, escaldadores, líneas de enfriado y pasteurizadores
- Pasta, incluyendo escaldadores, pasteurizadores y líneas de enfriado
- Agricultura (maíz y arroz), incluyendo elevadores, escaldadores y líneas de enfriado
- Bebidas, incluyendo mesas de acumulación, pasteurizadores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



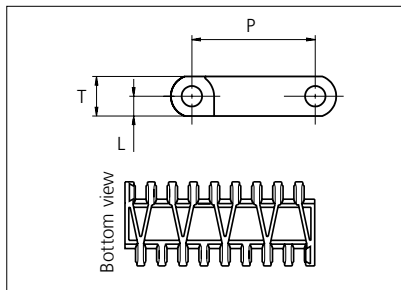
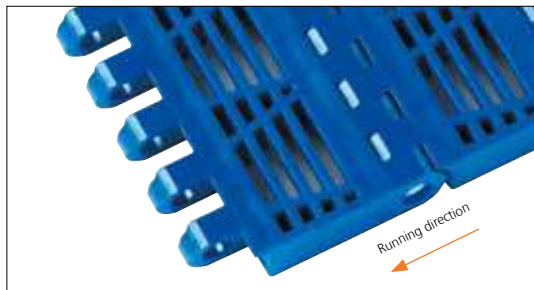
STANDARD

STRAIGHT RUNNING

PITCH 50.0 MM/1.97 IN

Plastic Modular Belt

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



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.

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.

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	1298	292	1298	292	0.8	0.54	0.8	0.54	2	2	2
151	5.9	1661	373	1661	373	1.0	0.69	1.0	0.69	2	2	2
185	7.3	2035	457	2035	457	1.3	0.85	1.3	0.85	2	2	2
302	11.9	3322	747	3322	747	2.1	1.38	2.1	1.38	3	3	2
453	17.8	4983	1120	4983	1120	3.1	2.07	3.1	2.07	4	4	2
604	23.8	6644	1494	6644	1494	4.1	2.76	4.1	2.76	5	5	3
755	29.7	8305	1867	8305	1867	5.1	3.45	5.1	3.45	6	6	3
906	35.7	9966	2240	9966	2240	6.2	4.14	6.2	4.14	7	7	4
1057	41.6	11627	2614	11627	2614	7.2	4.83	7.2	4.83	8	8	4
1208	47.6	13288	2987	13288	2987	8.2	5.52	8.2	5.52	9	9	5
1359	53.5	14949	3361	14949	3361	9.2	6.21	9.2	6.21	10	10	5
1510	59.4	16610	3734	16610	3734	10.3	6.90	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	28237	6348	17.5	11.73	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	31559	7094	19.5	13.11	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 mm (6 in); Return: 304 mm (12 in).

= Single Link



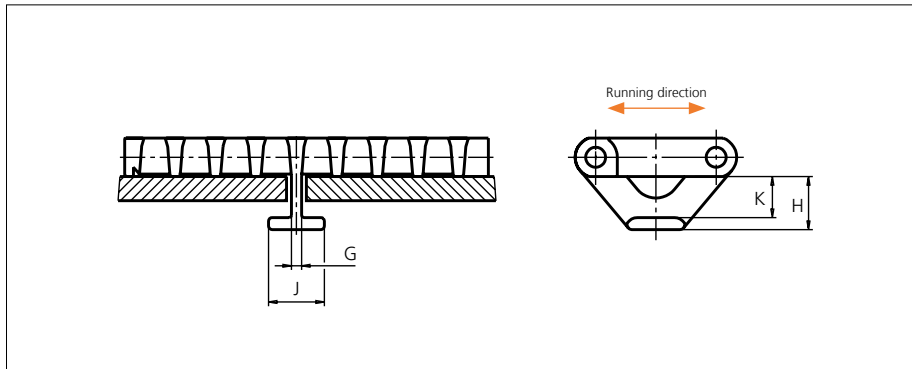
STANDARD

STRAIGHT RUNNING

PITCH 50.0 MM/1.97 IN

Accessories

Tab/NON STANDARD

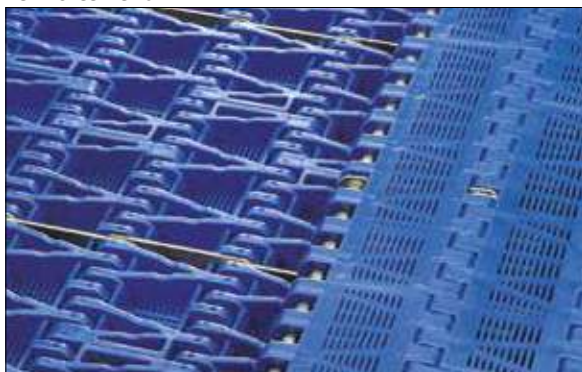


Type	Belt material & color	G		H		J		K	
		mm	in	mm	in	mm	in	mm	in
Bottom Hold Down	POM-D N	4.2	0.17	22.0	0.87	23.2	0.92	17.0	0.67
	POM-LF B								
	PP W								

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

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.

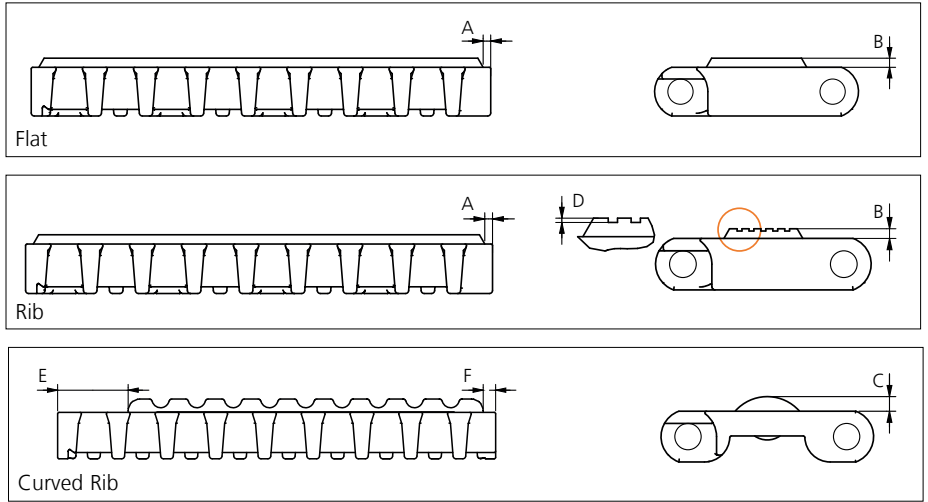
Type	Material & color	N/row	Lbf/row
Steel Link	SS316	2500	562

Note: Reinforcement links require the use of SS pins.

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

Accessories

Rubber Top

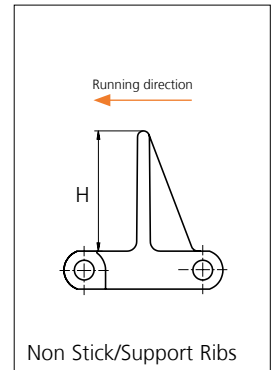
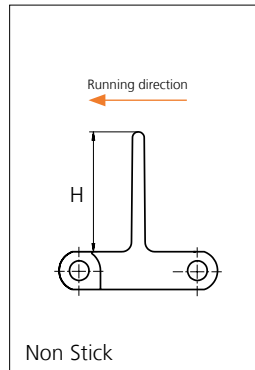


Type	Belt Material & color	Rubber Material & color	A		B		C		D		E		F		Link size	Width	
			mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		mm	in
Flat	POM-LF BR	03 N													K600	150.5	5.93
Rib	POM-D W		2.5	0.10	3.0	0.12	4.5	0.18	0.7	0.03	24.0	0.94	4.0	0.16			
Curved Rib	POM-D W	03 K															

Other Non Standard Rubber profiles: See uni Rubber Profile Overview.

Accessories

Flight

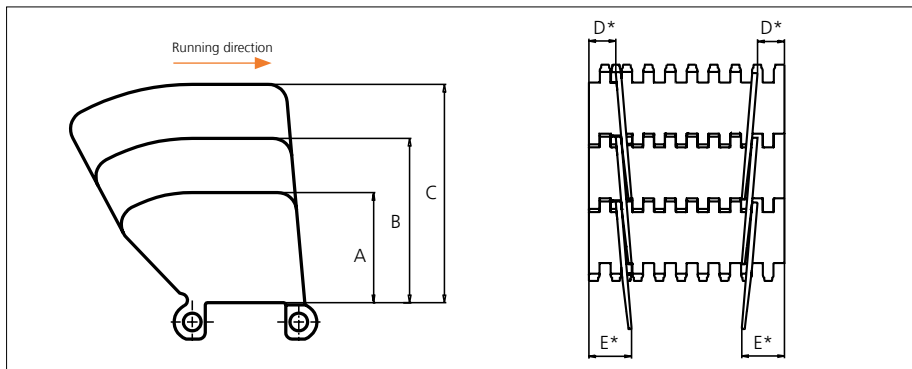


Type	Recommended Material & color	H		Link size	Width		Indent	
		mm	in		mm	in	mm	in
Non Stick	PP-HW B	50.8	2.00	K600	151.0	5.94	0.0	0.00
Non Stick/ Support Ribs		76.2	3.00					
		101.6	4.00					

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

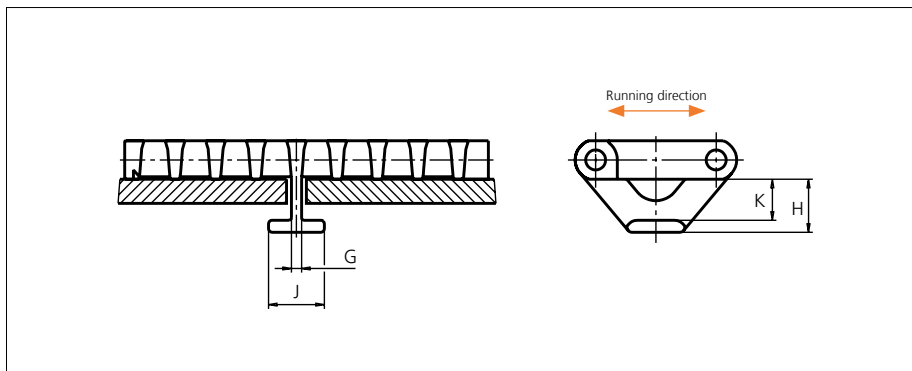
* Min. indent Increment : 8.4 mm (0.33 in)

Note: Backflex radius when side guard 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.

Accessories

Non Standard uni AmFlight



Other Non Standard option: See uni AmFlight Overview.

Sprocket

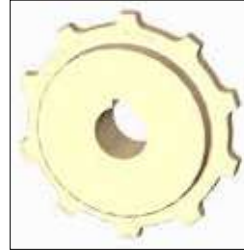
No of teeth	Bore size													Overall diameter		Pitch-diameter		Hub-diameter		Dimension A		Dimension B		Single row/Two way	Double row/Two way	Molded PA6 LG	Machined PA6 N
	Pilot Bore		0.75	0.78	0.98	1.00	1.18	1.25	1.50	1.57	2.36	2.50	3.54														
	mm	in	19.1	20.0	25.0	25.4	30.0	31.8	38.1	40.0	60.0	63.5	90.0	mm	in	mm	in	mm	in	mm	in	x	x	x	x		
Z06	x				●	●	●	■	■				89.1	3.51	100.3	3.95	65	2.56	35.5	1.40	58.6	2.31	x		x		
Z08	x				●	●	●	■	■				120.9	4.76	131.1	5.16	65	2.56	52.6	2.07	74	2.91	x		x		
Z10	x					●	●	■	■				153.0	6.02	162.4	6.39	65	2.56	69.2	2.72	89.7	3.53	x		x		
Z12	x					●	●	■	■				185.5	7.30	193.9	7.63	65	2.56	85.7	3.37	105.5	4.15	x		x		
Z13	x					●		■	■				201.0	7.91	209.7	8.26	72	2.83	93.8	3.69	113.4	4.46	x		x		
Z13											■		201.0	7.91	209.7	8.26	150	5.91	93.8	3.69	113.4	4.46	x			x	
Z16	x					●		■	■			■	250.8	9.87	257.3	10.13	200	7.87	118.2	4.65	137.1	5.40	x			x	

■ Molded sprocket

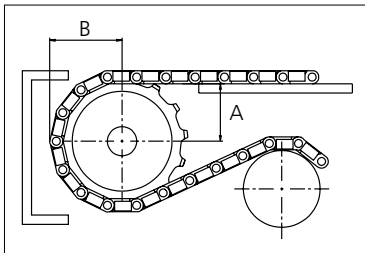
● Molded sprocket

■ 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.