

Paso de 50.8 mm (2.00 pulgadas)



uni CPB – una banda fuerte y resistente al desgaste

La banda de tramo recto y paso de 2 pulgadas uni CPB se creó para transportadores de cargas pesadas. Sustituye a las cadenas de charnela de acero y a otras tecnologías que se usaban para aplicaciones pesadas o de mucho desgaste.

Las bandas uni CPB (Superficie lisa y rugosa) han mejorado el funcionamiento en las siguientes industrias/aplicaciones:

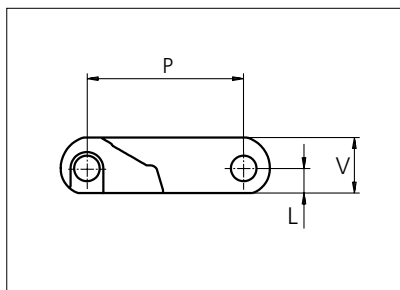
- Automovilística, incluyendo bandas para transporte de personas, transportadores de coches y pruebas de estanqueidad
- Lavado de coches, incluyendo el lavado y acabado interior
- Manipulado de materiales, incluyendo manipulado de palés y otras aplicaciones pesadas
- Cárnica (cerdo y ternera), incluyendo líneas de enganche y transportadores de piel
- Panadería, incluyendo la manipulación de pilas de bandejas y las líneas de empaquetado
- Transporte de personas, incluyendo el transporte de esquiadores y en parques de atracciones

Características del producto y ventajas de funcionamiento:

- No necesita lubricación
- Mantenimiento fácil y menos tiempos muertos, gracias a su sistema único de cierre (lockpin)
- Bajo nivel de ruido
- Resistencia muy alta al desgaste y a los impactos
- Sistema de engranaje único, que permite transportadores largos con efecto pulsante reducido
- Superficie rugosa, reduce el riesgo de deslizamiento y permite movimientos seguros

Plastic Modular Belt

Series **uni CPB** Type **C**



Straight running belt
Nominal pitch: 50.8 mm (2.00 in)
Surface type: Flat
Surface opening: Closed
Backflex radius: 85.0 mm (3.30 in)
Pin diameter: 8.0 mm (0.31 in)

Belt material & color	POM-NL K	PP G		mm	in		mm	in
Pin material & color	PA6.6 N		P (Nominal)	50.8	2.00	V	19.0	0.75
			L	8.0	0.31	-	-	-

Non standard material and color: See uni Material and Color Overview.
Alternative pin and lock systems and materials: Contact Customer Service.

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-NL / PA6.6		PP/PA6.6		POM-NL / PA6.6		PP/PA6.6			**Carry (pcs)	**Return (pcs)
mm	in	N	lbf	N	lbf	kg/m	lb/ft	kg/m	lb/ft			
151	5.9	7852	1765	5285	1188	2.5	1.68	1.7	1.13	2	2	2
202	8.0	10504	2361	7070	1589	3.4	2.25	2.2	1.51	2	2	2
252	9.9	13104	2946	8820	1983	4.2	2.81	2.8	1.88	2	2	2
302	11.9	15704	3530	10570	2376	5.0	3.37	3.4	2.25	3	3	2
352	13.9	18304	4115	12320	2770	5.8	3.93	3.9	2.63	3	3	2
403	15.9	20956	4711	14105	3171	6.7	4.50	4.5	3.01	3	3	2
453	17.8	23556	5295	15855	3564	7.5	5.05	5.0	3.38	4	4	2
503	19.8	26156	5880	17605	3958	8.3	5.61	5.6	3.75	4	4	2
553	21.8	28756	6464	19355	4351	9.2	6.17	6.1	4.13	4	4	2
604	23.8	31408	7061	21140	4752	10.0	6.74	6.7	4.51	5	5	3
654	25.7	34008	7645	22890	5146	10.9	7.30	7.3	4.88	5	5	3
704	27.7	36608	8229	24640	5539	11.7	7.85	7.8	5.25	5	5	3
754	29.7	39208	8814	26390	5932	12.5	8.41	8.4	5.62	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 mm 16.8 (0.66 in).

1961	77.2	101972	22923	68635	15429	32.6	21.88	21.8	14.63	14	14	7
------	------	--------	-------	-------	-------	------	-------	------	-------	----	----	---

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 mm 16.8 (0.66 in).

2966	116.8	154232	34671	103810	23336	49.2	33.09	32.9	22.13	20	20	10
------	-------	--------	-------	--------	-------	------	-------	------	-------	----	----	----

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.

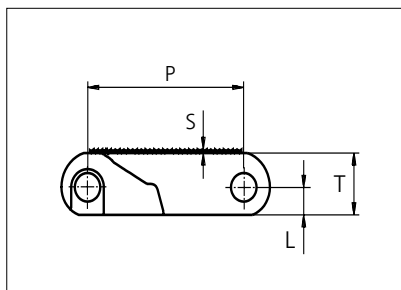
*Max. Load per Drive Sprocket. Belt material: POM-NL 2500 N (560 lbf). PP 2500 N (560 lbf).

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

 = Single Link

Plastic Modular Belt

Series **uni CPB** Type **Rough**



Straight running belt
Nominal pitch: 50.8 mm (2.00 in)
Surface type: Rough Top
Surface opening: Closed
Backflex radius: 85.0 mm (3.30 in)
Pin diameter: 8.0 mm (0.31 in)

Belt material & color	POM-NL K		mm	in		mm	in
Pin material & color	PA6.6 N	P (Nominal)	50.8	2.00	S	1.0	0.04
		L	8.0	0.31	T	18.0	0.71

Non standard material and color: See uni Material and Color Overview.
Alternative pin and lock systems and materials: Contact Customer Service.

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-NL / PA6.6		POM-NL / PA6.6			**Carry (pcs)	**Return (pcs)
mm	in	N	lbf	kg/m	lb/ft			
151	5.9	7852	1765	2.5	1.68	2	2	2
202	8.0	10504	2361	3.4	2.25	2	2	2
252	9.9	13104	2946	4.2	2.81	2	2	2
302	11.9	15704	3530	5.0	3.37	3	3	2
352	13.9	18304	4115	5.8	3.93	3	3	2
403	15.9	20956	4711	6.7	4.50	3	3	2
453	17.8	23556	5295	7.5	5.05	4	4	2
503	19.8	26156	5880	8.3	5.61	4	4	2
553	21.8	28756	6464	9.2	6.17	4	4	2
604	23.8	31408	7061	10.0	6.74	5	5	3
654	25.7	34008	7645	10.9	7.30	5	5	3
704	27.7	36608	8229	11.7	7.85	5	5	3
754	29.7	39208	8814	12.5	8.41	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 mm 16.8 (0.66 in).

1961	77.2	101972	22923	32.6	21.88	14	14	7
------	------	--------	-------	------	-------	----	----	---

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 mm 16.8 (0.66 in).

2966	116.8	154232	34671	49.2	33.09	20	20	10
------	-------	--------	-------	------	-------	----	----	----

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.

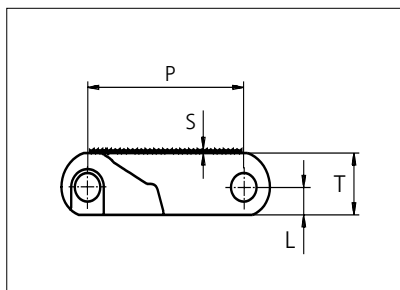
*Max. Load per Drive Sprocket. Belt material: POM-NL 2500 N (560 lbf), PP 2500 N (560 lbf).

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

 = Single Link

Plastic Modular Belt

Series **uni CPB** Type **20% Rough**



Straight running belt
Nominal pitch: 50.8 mm (2.00 in)
Surface type: Rough Top
Surface opening: 20%
Backflex radius: 85.0 mm (3.30 in)
Pin diameter: 8.0 mm (0.31 in)

Belt material & color	POM-NL 		mm	in		mm	in
Pin material & color	 PA6.6 	P (Nominal)	50.8	2.00	S	1.0	0.04
		L	8.0	0.31	T	18.0	0.71

Non standard material and color: See uni Material and Color Overview.
Alternative pin and lock systems and materials: Contact Customer Service.

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-NL / PA6.6		POM-NL / PA6.6			**Carry (pcs)	**Return (pcs)
mm	in	N	lbf	kg/m	lb/ft			
151	5.9	7852	1765	2.5	1.68	2	2	2
202	8.0	10504	2361	3.4	2.25	2	2	2
252	9.9	13104	2946	4.2	2.81	2	2	2
302	11.9	15704	3530	5.0	3.37	3	3	2
352	13.9	18304	4115	5.8	3.93	3	3	2
403	15.9	20956	4711	6.7	4.50	3	3	2
453	17.8	23556	5295	7.5	5.05	4	4	2
503	19.8	26156	5880	8.3	5.61	4	4	2
553	21.8	28756	6464	9.2	6.17	4	4	2
604	23.8	31408	7061	10.0	6.74	5	5	3
654	25.7	34008	7645	10.9	7.30	5	5	3
704	27.7	36608	8229	11.7	7.85	5	5	3
754	29.7	39208	8814	12.5	8.41	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 mm 16.8 (0.66 in).

1961	77.2	101972	22923	32.6	21.88	14	14	7
------	------	--------	-------	------	-------	----	----	---

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 mm 16.8 (0.66 in).

2966	116.8	154232	34671	49.2	33.09	20	20	10
------	-------	--------	-------	------	-------	----	----	----

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.

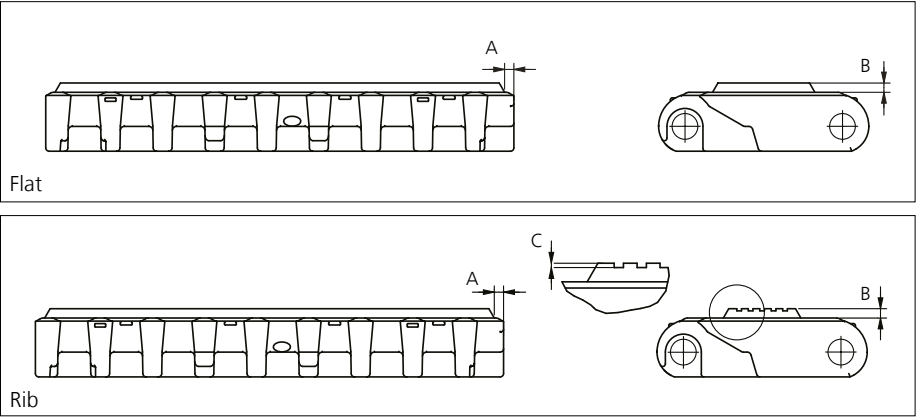
*Max. Load per Drive Sprocket. Belt material: POM-NL 2500 N (560 lbf). PP 2500 N (560 lbf).

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

 = Single Link

Accessories

Rubber Top

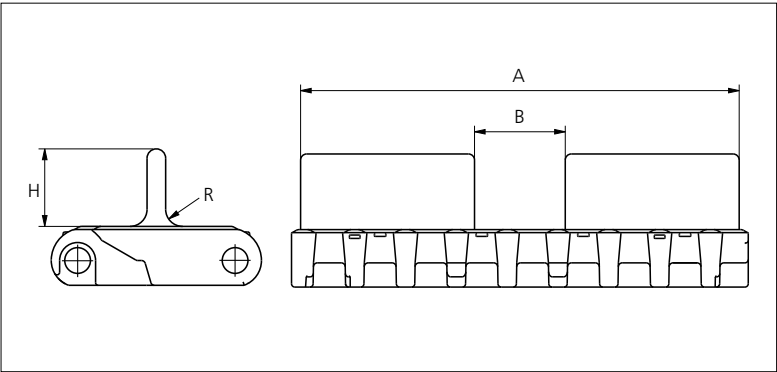


Type	Belt material & color	Rubber material & color	A		B		C		Link size	Width	
			mm	in	mm	in	mm	in		mm	in
Flat	POM-NL K	09 K	2.5	0.09	3.0	0.12	0.7	0.02	K600	150.5	5.93
Rib											

The color of standard rubber material is black. However, as it is hardly possible to see black rubber on black links, the links are illustrated with rubber in color natural. Other Non Standard Rubber profiles: See uni Rubber Profile Overview.

Accessories

Flight



Type	Material & color	H		R		A		B		Link size	Width		Indent	
		mm	in	mm	in	mm	in	mm	in		mm	in	mm	in
Flat	POM-NL K	25.0	0.98	5.5	0.22	145.0	5.70	30.0	1.18	K600	150.5	5.93	2.8	0.11

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

Accessories

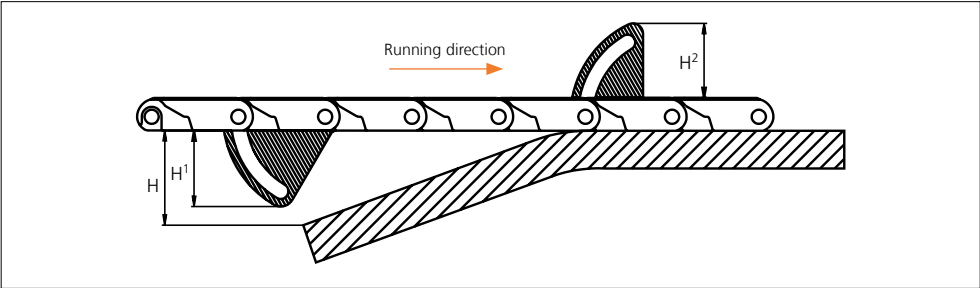
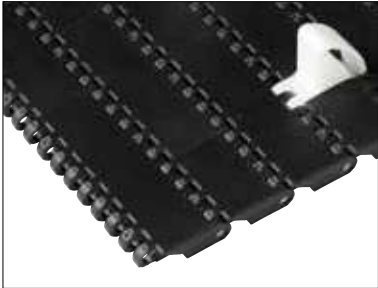
Top/Bottom Insert NON STANDARD



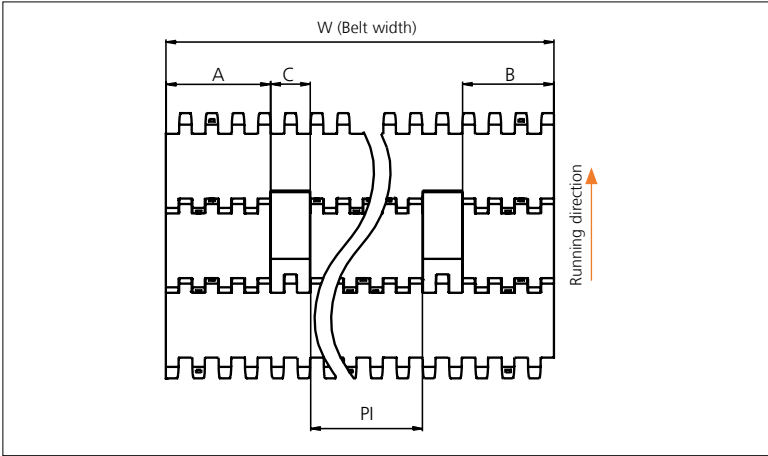
The thread inserts allow for easy attachment of fixturers to the belt.
Available insert size M5 + M6.
Depending on the size and shape of the attachment, attention should be paid as to how it will influence on the backflex radius of the belt.

Accessories

AmFlight



Type	Material & color	H		H¹		H²	
		mm	in	mm	in	mm	in
Pull	PE W	56.2	1.21	45.0	1.77	45.6	1.80



	mm	in
A min	67.7	2.67
B min	59.3	2.33
C	24.0	0.94
PI max	W - 175.0	W - 6.89
PI min	43.2	1.70

Increment: 17.0 mm (0.70 in.)

Sprocket

No of teeth	Bore size										Overall diameter		Pitch-diameter		Hub-diameter		Dimension A		Dimension B		Single row/One way	Double row/Two way	Molded	Machined
	Pilot bore	in		1.00	1.18	1.25	1.50	1.57	2.36	2.50														
		mm	25.4	30.0	31.8	38.1	40.0	60.0	63.5	90.0	mm	in	mm	in	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	✓	¹ ✓	✓	
Z10	✓			¹ ●	¹ ●	¹ ● ■	¹ ● ■	² ■	² ■		166.3	6.55	164.4	6.47	¹ 70.0 ² 120.0	2.75 4.72	70.2	2.76	90.7	3.57	✓	✓	✓	
Z12	✓			¹ ●	¹ ●	¹ ● ■	¹ ● ■	² ■ ³ ■	² ■	³ ■	198.6	7.82	196.3	7.73	¹ 70.0 ² 120.0 ³ 164.0	2.75 4.72 6.45	86.8 86.8	3.42 3.42	106.6 106.6	4.19 4.19	¹⁺² ✓	²⁺³ ✓	✓	
Z16	✓		² ● ¹ ●	² ● ¹ ●	² ● ■ ¹ ● ■	² ● ■ ¹ ● ■	² ● ■ ¹ ● ■	³ ■ ¹ ■	² ■ ¹ ■	³ ■	263.8	10.39	260.4	10.25	¹ 150.0 ² 164.0 ³ 200.0	5.90 6.45 7.87	119.7	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.

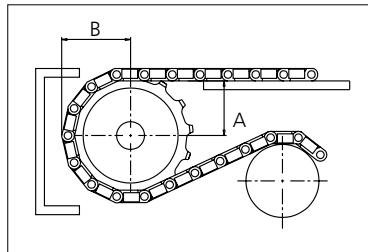
Width of tooth = Single row: 9.5 mm (0.37 in)
= Double row: 17.8 mm (0.70 in)

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. of teeth	Bore size				Overall diameter		Pitch-diameter		Hub-diameter		Dimension A		Dimension B		Single row/One way	Moulded
	in	1.50	1.57	2.36												
	mm	38.1	40.0	60.0	mm	in	mm	in	mm	in	mm	in	mm	in		
Z8		■	■		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	¹ 126.0 ² 118.0	¹ 4.96 ² 4.65	70.2	2.76	90.7	3.57	✓	✓
Z12		¹ ■	¹ ■	² ■	198.6	7.82	196.3	7.73	¹ 126.0 ² 118.0	¹ 4.96 ² 4.65	86.8	3.42	106.6	4.19	✓	✓

■ Moulded uni UltraClean TwoPart Sprocket

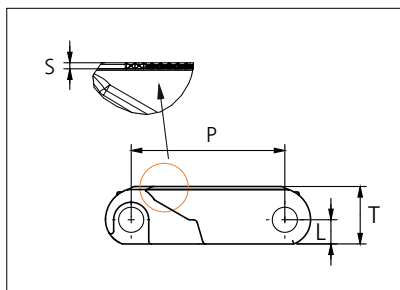


Width of UltraClean Two-part sprocket = Single row: 44.0 mm (1.73 in)
Width of UltraClean Two-part sprocket, tooth = Single row: 9.5 mm (0.37 in)

uni Retainer Rings: See uni Retainer Ring data sheet.
For correct sprocket position: See uni Assembly Instructions for uni CPB.
For more detailed sprocket information. contact Customer Service.

Plastic Modular Belt

Series **uni CPB** Type **Rough Embedded**



Straight running belt
Nominal pitch: 50.8 mm (2.00 in)
Surface type: Rough Embedded
Surface opening: 0%
Backflex radius: 85.0 mm (3.30 in)
Pin diameter: 8.0 mm (0.31 in)

Belt material & color	POM-DI UV O W				
Pin and lock material & color	PBT-GR N	PA6.6 N			
	P (Nominal)	50.8	2.00	S	1.0
	L	8.0	0.31	T	18.0
					0.04
					0.71

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.)	
		POM-DI UV/PBT-GR		POM-DI UV/PBT-GR			**Carry (pcs)	**Return (pcs)
mm	in	N	lbf	kg/m	lb/ft			
151	5.9	7826	1759	2.5	1.68	2	2	2
403	15.9	20956	4711	6.7	4.50	3	3	2
453	17.8	23556	5295	7.5	5.05	4	4	2
503	19.8	26156	5880	8.3	5.61	4	4	2
553	21.8	28756	6464	9.2	6.17	4	4	2
604	23.8	31408	7061	10.0	6.74	5	5	3
654	25.7	34008	7645	10.9	7.30	5	5	3
704	27.7	36608	8229	11.7	7.85	5	5	3
754	29.7	39208	8814	12.5	8.41	6	6	3
805	31.7	41860	9410	13.4	8.98	6	6	3
855	33.7	44460	9995	14.2	9.54	6	6	3
905	35.6	47060	10579	15.0	10.10	7	7	4
956	37.6	49712	11175	15.9	10.67	7	7	4

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).

1961	77.2	101972	22923	32.6	21.88	14	14	7
------	------	--------	-------	------	-------	----	----	---

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).

2966	116.8	154232	34671	49.2	33.09	20	20	10
------	-------	--------	-------	------	-------	----	----	----

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.

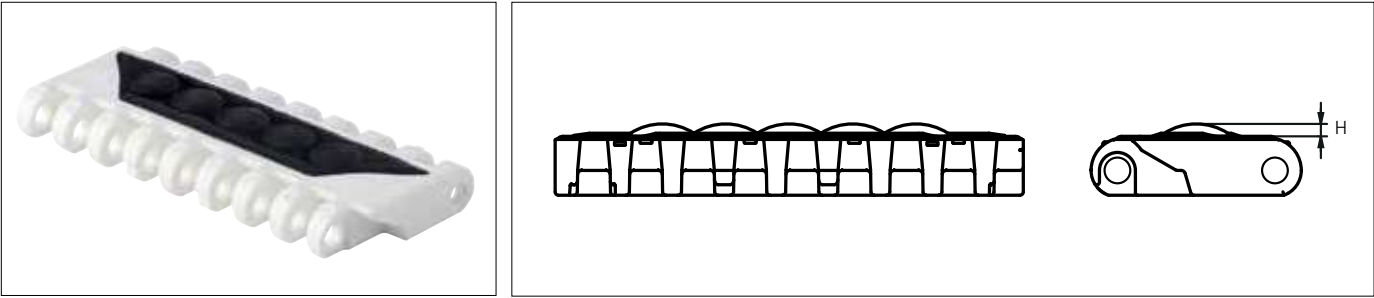
*Max. Load per Drive Sprocket. Belt material: POM-NLAS 2500 N (560 lbf), POM-NL 2500 N (560 lbf), PP 2500 N (560 lbf).

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

= Single Link

Accessories

Rubber Top

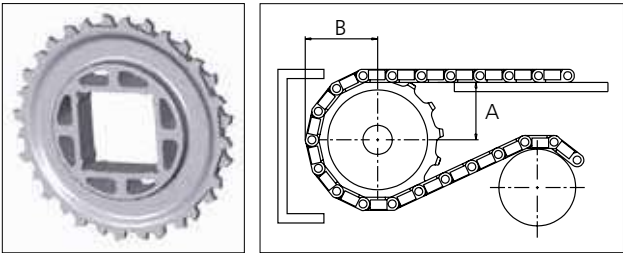


Type	Belt material & color	Rubber material & color	H		Link size	Width	
			mm	in		mm	in
Dome	PPI/UV W	03K K	4.0	0.16	K600	150.5	5.93

Sprocket

No of teeth	Bore size					Overall diameter		Pitch diameter		Hub diameter		Dimension A		Dimension B		Single row/One way	Double row/Two way	LG PA6	N PA6
	in	1.57	2.36	2.50	3.54														
	mm	40.0	60.0	63.5	90.0	mm	in	mm	in	mm	in	mm	in	mm	in			Molded	Machined
Z16						263.8	10.39	260.4	10.25	160	6.29	119.7	4.71	138.7	5.46		x	x	

Molded 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 = 9.5 mm (0.37 in)
 Width of sprocket = 40.8.0 mm (1.60 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 CPB.
 For more detailed sprocket information, contact Customer Service.

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