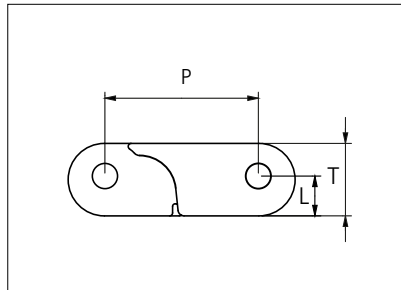




# Plastic Modular Belt

Series **uni CSB** Type **C**



Straight running belt  
Nominal pitch: 50.8 mm (2.00 in)  
Surface type: Flat  
Surface opening: Closed  
Backflex radius: 100 mm (3.94 in)  
Pin diameter: ø8.0 mm (0.31 in)

Recommended belt material & color	POM NLAS <b>K</b>	mm	in	mm	in
Recommended pin and lock material & color	PA6.6 <b>N</b> PP <b>O</b>	P (Nominal)	50.8	2.00	T
		L	13.2	0.52	

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

Safety edges with orange or yellow edge links mounted on alternating pitches along both belt edges are optional.

Alternative pin and lock material: SS420 PA6.6 **N**

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 NLAS/PA66 POX-FR/PA66		POM NLAS/SS POX-FR/SS		PP/PA66		PP/SS		POM NLAS/PA66		PP/PA66			**Carry (pcs)	**Return (pcs)
		N	lbf	N	lbf	N	lbf	N	lbf	Kg/m	lb/ft	Kg/m	lb/ft			
mm	in	N	lbf	N	lbf	N	lbf	N	lbf	Kg/m	lb/ft	Kg/m	lb/ft			
153	6.0	13725	3085	15250	3428	7625	1714	7625	1714	2.9	1.92	1.8	1.24	2	2	2
305	12.0	27450	6171	30500	6856	15250	3428	15250	3428	5.7	3.83	3.7	2.48	3	3	2
458	18.0	41177	9257	45753	10285	22876	5143	22876	5143	8.6	5.75	5.5	3.72	4	4	2
610	24.0	54905	12343	61005	13714	30503	6857	30503	6857	11.4	7.67	7.4	4.96	5	5	3
763	30.0	68632	15429	76258	17143	38129	8571	38129	8571	14.3	9.58	9.2	6.20	6	6	3
915	36.0	82360	18514	91511	20572	45755	10286	45755	10286	17.1	11.50	11.1	7.44	7	7	4
1068	42.0	96087	21600	106764	24000	53382	12000	53382	12000	20.0	13.42	12.9	8.68	8	8	4
1220	48.0	109815	24686	122016	27429	61008	13715	61008	13715	22.8	15.33	14.8	9.92	9	9	5
1373	54.0	123542	27772	137269	30858	68634	15429	68634	15429	25.7	17.25	16.6	11.16	10	10	5
1525	60.0	137269	30858	152522	34287	76261	17143	76261	17143	28.5	19.17	18.5	12.40	11	11	6
1678	66.1	150997	33944	167774	37716	83887	18858	83887	18858	31.4	21.08	20.3	13.64	12	12	6
1830	72.1	164724	37030	183027	41144	91514	20572	91514	20572	34.2	23.00	22.1	14.88	13	13	7

Additional standard belt widths are available in steps of 152.5 mm (6.00 in.) Additional non-standard belt widths are available in steps of 25.4 mm (1.00 in)

2898	114.1	260820	58632	289800	65147	144900	32574	144900	32574	54.2	36.42	35.1	23.57	20	20	10
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Additional standard belt widths are available in steps of 152.5 mm (6.00 in.) Additional non-standard belt widths are available in steps of 25.4 mm (1.00 in)

3965	156.1	356850	80220	396500	89133	198250	44567	198250	44567	74.1	49.83	48.0	32.24	27	27	14
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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 POX FR is 1.0 % wider than the belt widths in the table above.

\*Max. Load per Drive Sprocket. Belt material: NLAS 6000 N (1349 lbf). PP 4000 N (899 lbf). POX FR 6000 N (1349 lbf).

\*\*Max. Spacing between wear strips. Carry: 152 mm (6 in) ; Return: 304 mm (12 in)

\*\*\*The weight of the belt with SS pins is 6.7 kg/m² (0.42 lb/ft²) higher than with PA66 pins

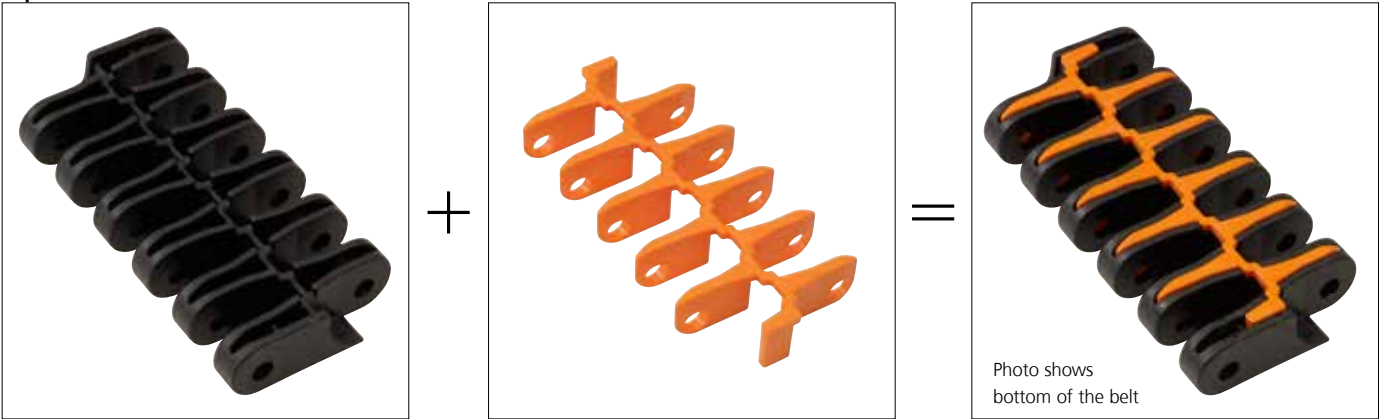
\*\*\*The weight in POX FR is approximately 12 % lower than the weight of NLAS


uni CSB POX-FR is B1 fire rated according to DIN4102.

= Single Link

Accessories

Top/Bottom Insert



Type	Insert material & color	Weight	
		kg/m²	lb/ft²
Wheel Plate	POM DK 	4.7	0.97

Contact area/wear surface of belt will increase from 24% to 47% by the use of inserts.

Accessories

Top/Bottom Insert

EC insert in uni CSB 8% Rough type can be build in to uni CSB C to create an electrical conductive belt.

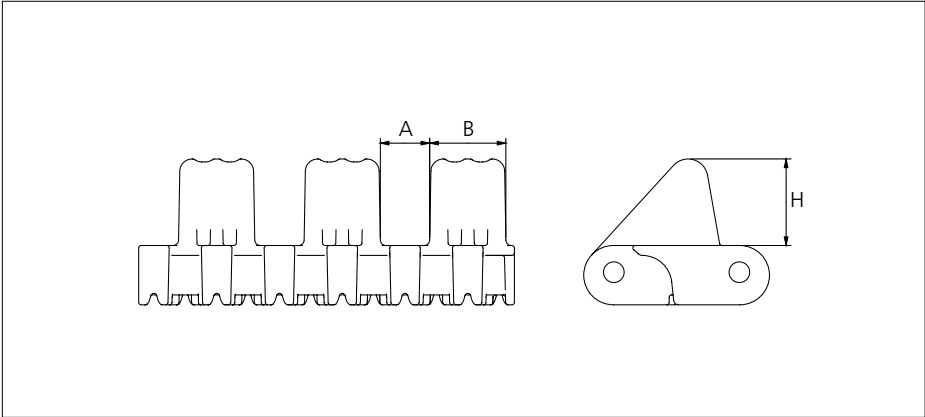



Type	Insert material & color	Weight	
		kg/m²	lb/ft²
Electrical Conductive	POX-FREC 	5.3	1.09

Contact area/wear surface of belt will increase from 24% to 47% by the use of inserts.  
POX-FREC holds a surface resistivity of 1x10<sup>3</sup> Ohm according to IEC 60093/ASTM D257.

Accessories






Flight



Type	Flight material & color	A		B		H		Link size	Width	
		mm	in	mm	in	mm	in		mm	in
Car pusher	POM NL 	20.0	0.79	31.0	1.22	35.0	1.38	K600	152.4	6.00

Backflex radius when flights are used: 200 mm (7.87 in).

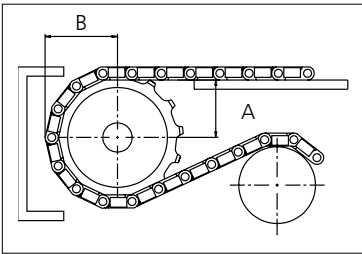
## Sprocket

No of teeth	Bore size							Overall diameter		Pitch-diameter		Hub-diameter		* A-dimen-sion		B-dimen-sion		Single row/Two way	Double row/Two way	Molded PA6 LG	Machined PA6 N
	Pilot bore	in	1.57	2.36	2.50	3.54	3.54														
		mm	40.0	60.0	63.5	90.0	120.0	mm	in	mm	in	mm	in	mm	in						
Z12	x							197.3	7.77	197.0	7.76	150.0	5.91	82.0	3.23	109.4	4.31		x		x
Z16	x							263	10.35	261.4	10.29	200.0	7.87	115.0	4.53	141.5	5.57		x		x

\*A-dimension for automotive applications use A = (B-23.0 mm/0.91 in).

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

### ■ Machined sprocket



Other sprocket sizes are available upon request.  
Two-part sprockets 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 single tooth = 10.0 mm (0.39 in)  
Width of sprocket = 50.0 mm (1.98 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 CSB.  
For more detailed sprocket information, contact Customer Service.



Conveyor Belt



Seamless Belt



Modular Belt



Timing Belt



Transmission Belt



Fabrication & service

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