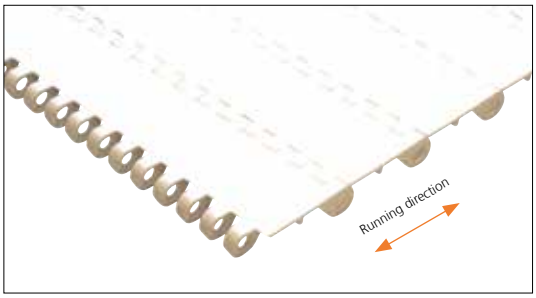
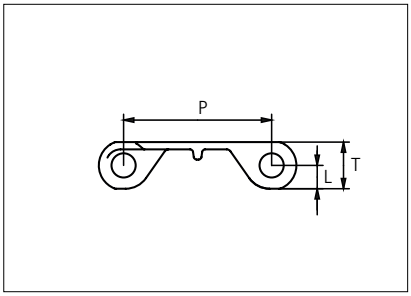
EN

Plastic Modular Belt

Series **uni ULB** Type **C**





Straight running belt
Nominal pitch: 50.8 mm (2.00 in)
Surface type: Flat
Surface opening: Closed
Backflex radius: 65.0 mm (2.6 in)
Pin diameter: 8 mm (0.31 in)

Belt material & color	POM-D W B	PP-I W B
Pin material & color	PP W	

	mm	in		mm	in
P (Nominal)	50.8	2.00	**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.)	
		POM-D/PA66		PP-I/PP		PE/PE		POM-D/PA66		PP-I/PP		PE/PE			**Carry (pcs)	**Return (pcs)
mm	in	N	lbf	N	lbf	N	lbf	Kg/m	lb/ft	Kg/m	lb/ft	Kg/m	lb/ft			
152	6.0	866	195	471	106	456	103	1.1	0.71	0.7	0.47	0.7	0.50	2	2	2
303	11.9	1727	388	939	211	909	204	2.1	1.42	1.4	0.94	1.5	1.00	3	3	2
454	17.9	2588	582	1407	316	1362	306	3.2	2.12	2.1	1.40	2.2	1.50	4	4	2
605	23.8	3449	775	1876	422	1815	408	4.2	2.83	2.8	1.87	3.0	1.99	5	5	3
756	29.8	4309	969	2344	527	2268	510	5.3	3.53	3.5	2.34	3.7	2.49	6	6	3
907	35.7	5170	1162	2812	632	2721	612	6.3	4.24	4.2	2.80	4.4	2.99	7	7	4
1058	41.7	6031	1356	3280	737	3174	714	7.4	4.94	4.9	3.27	5.2	3.48	8	8	4
1209	47.6	6891	1549	3748	843	3627	815	8.4	5.65	5.6	3.74	5.9	3.98	9	9	5
1360	53.5	7752	1743	4216	948	4080	917	9.5	6.35	6.3	4.20	6.7	4.48	10	10	5
1511	59.5	8613	1936	4684	1053	4533	1019	10.5	7.06	7.0	4.67	7.4	4.98	11	11	6
1662	65.4	9473	2130	5152	1158	4986	1121	11.6	7.76	7.6	5.14	8.1	5.47	12	12	6

Additional standard belt widths are available in steps of 151.0 mm (5.94 in).

1956	77.0	11149	2506	6064	1363	5868	1319	13.6	9.14	9.0	6.05	9.6	6.44	14	14	7

General belt tolerance is +0/-0.4% at 23°C/73°F. For exact belt width contact Customer Service. Non standard belt width on request.
The belt width in PP-I is 0.5 % wider than the belt width in the table.
*Max. Load per Drive Sprocket. Belt material: POM-DI with snub roller 1000 N (225 lbf) without snub roller 625 N (140 lbf).
**Max. Spacing between wear strips, Carry: 152 mm (6 in); Return: 304 mm (12 in).
☐ = Single Link

STANDARD

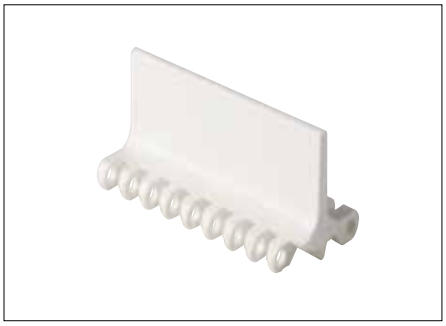
STRAIGHT RUNNING

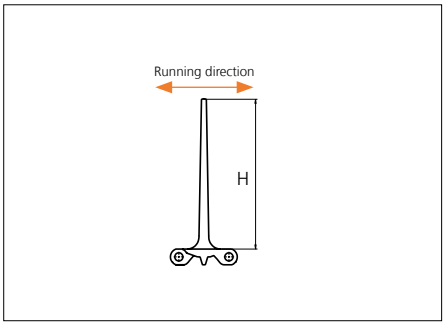
PITCH 50.8 MM/2.00 IN

uni chains

Accessories

Flight





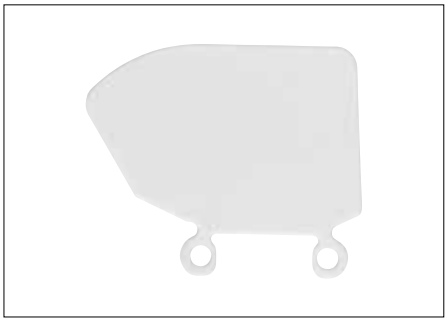
Type	Material & color	H		Link size	Width		Indent both sides	
		mm	in		mm	in	mm	in
Flat	POM-D W B PP-I W B	5.0	0.20	K600	151.0	5.94	3.0	0.12
		10.0	0.39					
		25.4	1.00				0.0	0.0
		50.8	2.00					
		76.2	3.00					
		101.6	4.00					
		101.6	4.00				34.0*	1.34
		152.4	6.00				0.0	0.00

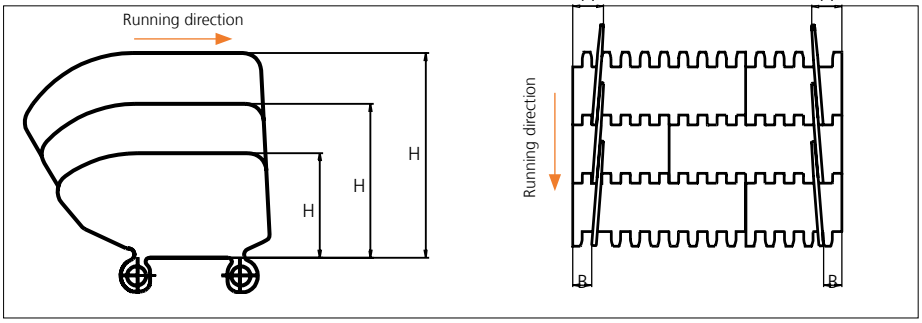
*Indent only in one side.

Depending on height and spacing the use of product supports may influence the backflex radius.
Other flights are avaliable: see uni MPB Flights datasheet.

Accessories

Side Guard



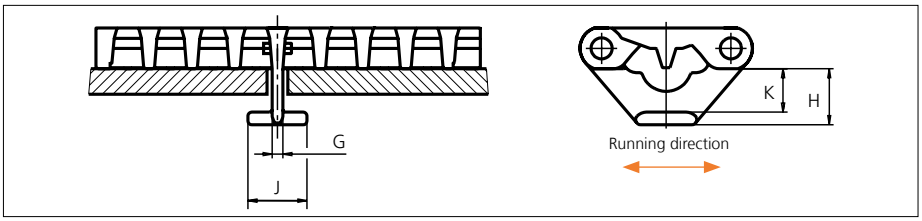


Type	Side Guard Material & color	H		A		B	
		mm	in	mm	in	mm	in
Closed	PP-I W B	50.8	2.00	32.0	1.26	16.0	0.63
		76.2	3.00				
		101.6	4.00				

*34.0 mm (1.34 in) combined with flight. Increment: 8.4 mm (0.33 in).
Note: Backflex radius when Side Guards are used: 200.0 mm (7.90 in)

Accessories

Tab



Type	Tab Material & color	G		J		K		H	
		mm	in	mm	in	mm	in	mm	in
Bottom Hold Down	POM-DI **W**	4.2	0.17	23.2	0.91	17.0	0.67	22.0	0.87

Note: When using tabs, please verify sufficient clearance to the shaft. Max. shaft diameter = Sprocket pitch diameter - 63.5 mm (2.50 in). When using square shafts, please verify that the diagonal does not exceed max. diameter. Example: Sprocket z = 6: Max. shaft diameter 101.6 - 63.5 = ø38.1 mm (4.00 - 2.50 = ø1.4 in).

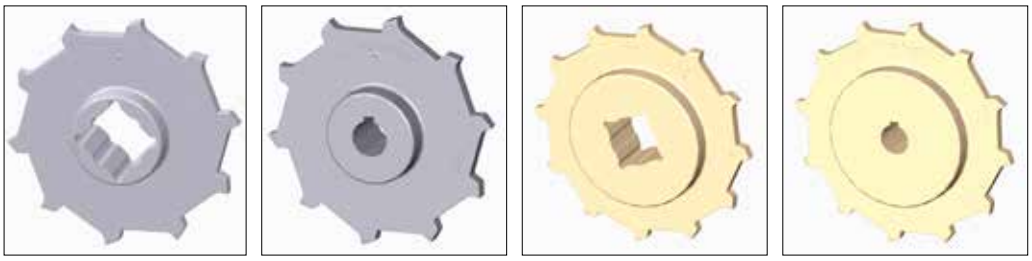
Note: When using a belt system with tabs, the temperature should be constant. Please note that the tabs are not always placed in the middle of the belt.

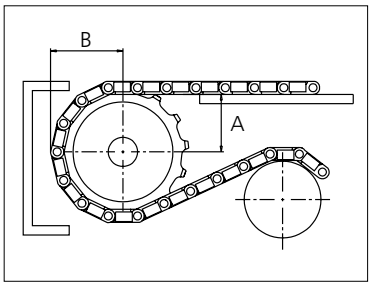
Non Standard material and color: See uni Material and Color Overview.

Sprocket

No. of teeth	Bore size													Overall diameter		Pitch diameter		Hub diameter		Dimension A		Dimension B		Single row/One way	LG PA6 Molded	N PA6 Machined
	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	mm	in			
Z08	x					●	●	●	■	●■				132.9	5.23	132.8	5.23	65.0	2.56	53.3	2.10	74.9	2.94	x	x	
Z10	x						●	●	●■	●■				166.3	6.55	164.4	6.47	65.0	2.56	70.2	2.76	90.7	3.57	x	x	
Z10											■	■		166.3	6.55	164.4	6.47	120.0	4.72	70.2	2.76	90.7	3.57	x	x	
Z12	x						●	●	●■	●■				198.6	7.82	196.3	7.73	65.0	2.56	86.8	3.42	106.6	4.19	x	x	
Z12											■	■		198.6	7.82	196.3	7.73	120.0	4.72	86.8	3.42	106.6	4.19	x	x	
Z16	x						●	●	●■	●■	■	■		263.8	10.39	260.4	10.25	150.0	5.90	119.7	4.71	138.7	5.46	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 sprocket = Single row: 42.3 mm (1.66 in)
Double row: 50.0 mm (1.96 in)
Width of tooth = Single row: 9.5 mm (0.37 in)
Double row: 17.0 mm (0.66 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 ULB.
For more detailed sprocket information, contact Customer Service.