## uni UCB – UltraClean Belt

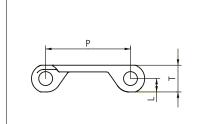




## Plastic Modular Belt

### Series uni UCB Type Closed





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: 8.0 mm (0.31 in)

Belt material	POM-D W B PP-I W B	PE-I N B		mm	in		mm	in 0.63
& color	POM-D W B PP-I W B	PE-I N B	P (Nominal)	50.8	2.00	Т	16.0	0.63
Pin material & color	A PP W	PE W	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 v	Belt width			issible Belt/pin					(B	Belt v	veight materia	al)		*Min. No. drive	Number of (Min.	•
		POM-	POM-D/PP		PP-I/PP		PE-I/PE		-D/PP	PP-	I/PP	PE-I/PE		sprocket	**Carry	**Return
mm	in	N	lbf	N	lbf	N	lbf	kg/m	lb/ft	kg/m	lb/ft	kg/m	lb/ft	per shaft	(pcs)	(pcs)
152	6.0	1596	359	958	215	365	82	1.2	0.80	0.8	0.55	0.8	0.57	2	2	2
203	8.0	2132	479	1279	287	487	110	1.6	1.07	1.1	0.73	1.1	0.76	3	3	2
253	10.0	2657	597	1594	358	607	136	2.0	1.33	1.4	0.91	1.4	0.95	3	3	2
304	12.0	3192	718	1915	431	730	164	2.4	1.60	1.6	1.10	1.7	1.14	4	4	2
354	13.9	3717	836	2230	501	850	191	2.8	1.86	1.9	1.28	2.0	1.33	4	4	3
405	15.9	4253	956	2552	574	972	219	3.2	2.13	2.2	1.46	2.3	1.52	5	5	3
455	17.9	4778	1074	2867	644	1092	245	3.6	2.39	2.4	1.64	2.5	1.71	5	5	3
506	19.9	5313	1194	3188	717	1214	273	4.0	2.66	2.7	1.83	2.8	1.90	6	6	4
556	21.9	5838	1312	3503	787	1334	300	4.3	2.92	3.0	2.01	3.1	2.09	6	6	4
607	23.9	6374	1433	3824	860	1457	327	4.7	3.19	3.3	2.19	3.4	2.28	7	7	4
657	25.9	6899	1551	4139	930	1577	354	5.1	3.45	3.5	2.37	3.7	2.46	7	7	5
708	27.9	7434	1671	4460	1003	1699	382	5.5	3.72	3.8	2.56	4.0	2.66	8	8	5
758	29.8	7959	1789	4775	1074	1819	409	5.9	3.98	4.1	2.74	4.2	2.84	8	8	5
809	31.9	8495	1910	5097	1146	1942	436	6.3	4.25	4.3	2.92	4.5	3.03	9	9	6
859	33.8	9020	2028	5412	1217	2062	463	6.7	4.51	4.6	3.10	4.8	3.22	9	9	6
910	35.8	9555	2148	5733	1289	2184	491	7.1	4.78	4.9	3.28	5.1	3.41	10	10	6
960	37.8	10080	2266	6048	1360	2304	518	7.5	5.05	5.2	3.46	5.4	3.60	10	10	7
1011	39.8	10616	2386	6369	1432	2426	545	7.9	5.31	5.4	3.65	5.6	3.79	11	11	7
Additional	standard	belt widths	are availa	ble in steps	of 50.4 m	nm (2.00 in	).									
1971		20696				4730	1063	15.4	10.36	10.6	7.11	11.0	7.39	20	20	13
		belt widths														
2981	117.4	31301	7036	18780	4222	7154	1608	23.3	15.67	16.0	10.76	16.6	11.18	30	30	20



General belt tolerance is +0/-0.4% at 23°C/73°F. For exact belt width contact Customer Service. Additional non-standard belt widths are available in steps of 16.8 mm (0.66 in).

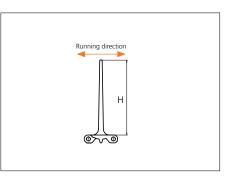
\*Max. Load per Drive Sprocket. Belt material: POM-DI 1000 N (225 lbf), PPI 660 N (149 lbf), PEI 170 N (38 lbf).

<sup>\*\*</sup>Max. Spacing between wear strips, Carry: 101.0 mm (4.00 in); Return: 152.0 mm (6.00 in).

#### **Accessories**

#### Flight





Туре	Material & color	ŀ	ł	Link	Wie	dth	Indent b	oth sides
туре	Material & Color	mm	in	size	mm	in	mm	oth sides in  0.12  1.34
		5.0	0.20					
		10.0	0.39				3.0	0.12
		25.4	1.00					
Flat	POM-D W B	50.8	2.00	K600	151.0	5.94	0.0	0.0
	PE-I N B	76.2	3.00				0.0	0.0
		101.6	4.00					
		101.6	4.00				34.0*	1.34
		152.4	6.00				0.0	0.00

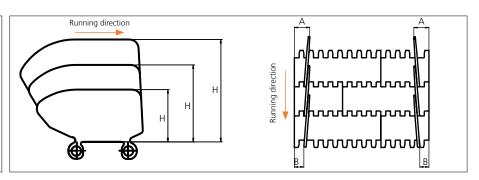
<sup>\*</sup>Indent only in one side.

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





Туре	Side Guard	H	1	1	4	В		
	Material & color	mm	in	mm	in	mm	in	
	DD 1 444	50.8	2.00			16.0		
Closed	PP-I W B PE-I N B	76.2	3.00	32.0	1.26		0.63	
		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)

#### **Sprocket**

£				Во	re si	ize				Overall	diameter	Pitch-	diameter	Hub	diameter	Dimension	∢	Dimension	<b>m</b>	e way	PA6 LG	PA6
No of teeth	in		1.00	1.18	1.25	1.50	1.57	2.36	2.50	ò	diar	Ë	diar	Ī	diar	Dime		Dime		row/One		
Š	Pilot bore	E E	25.4	30.0	31.8	38.1	40.0	0.09	63.5	mm	in	mm	in	mm	in	mm	in	mm	in	Single r	Molded	Machined
Z08	✓		•	•	•					132.9	5.23	132.8	5.23	65.0	2.56	53.3	2.10	74.9	2.94	✓	1	
Z10	✓			•	•					166.3	6.55	164.4	6.47	65.0	2.56	70.2	2.76	90.7	3.57	✓	1	
Z10										166.3	6.55	164.4	6.47	120.0	4.72	70.2	2.76	90.7	3.57	✓	✓	
Z12	✓			•	•					198.6	7.82	196.3	7.73	65.0	2.56	86.8	3.42	106.6	4.19	✓	✓	
Z12										198.6	7.82	196.3	7.73	120.0	4.72	86.8	3.42	106.6	4.19	✓	✓	
Z16	✓			•	•					263.8	10.39	260.4	10.25	150.0	5.90	119.7	4.71	138.7	5.46	✓		✓

#### Molded sprocket

#### Machined sprocket





Other sprocket sizes are available upon request.

Other bore sizes on sprockets are available upon request.

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
Width of One-part sprocket

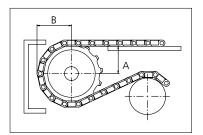
= Single row 9.5 mm (0.37 in) = Single row: 42.3 mm (1.67 in)

#### uni UltraClean Two-Part Sprocket

ath		Во	re size		Overall	diameter	Pitch-	neter	-qnH	neter	Dimension	⋖	ension	ω	row/One way	PA6 W				
No. of teeth	.⊑	1.50	1.57	2.36	ð	diar	Ë	diamet	Hub- diamet		Dim		Dimension B		row/Or					
S	E E	38.1	40.0	0.09	mm	in	mm	in	mm in		mm	in	mm	in	Single I	Monided				
Z8					132.9	5.23	132.8	5.23	80.0	3.15	53.3	2.10	74.9	2.94	1	<b>✓</b>				
Z10		1	1	2	166.3	6.55	164.4	6.47	<sup>1</sup> 126.0 <sup>2</sup> 118.0	<sup>1</sup> 4.96 <sup>2</sup> 4.65	70.2	2.76	90.7	3.57	✓	✓				
Z12		1	1	2	198.6	7.82	196.3	7.73	<sup>1</sup> 126.0 <sup>2</sup> 118.0	<sup>1</sup> 4.96 <sup>2</sup> 4.65	86.8	3.42	106.6	4.19	1	✓				

#### 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 UCB.
For more detailed sprocket information. contact Customer Service.

# Setting new cleanability standards for Plastic Modular Belts

The demands for food safety and hygiene are getting increasingly higher. This means that hygienic and cleanable equipment is more important than ever. Ammeraal Beltech has developed a revolutionary new belt: the uni UCB or UltraClean Belt. The best performing Plastic Modular Belt on hygiene and cleanability in the industry.

The uni UCB offers unparalleled food safety. Together with our UltraClean Two-Part Sprockets, the uni UltraClean Belt truly defines hygiene and cleanability efficiency in the food industry.



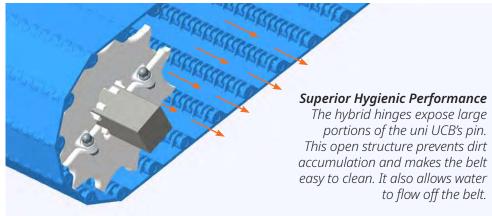
Ammeraal Beltech is member of European Hygienic Engineering & Design Group.



Food Grade belts comply with EC 1935/2004, FDA and USDA standards.

#### **KEY ADVANTAGES**

- Clean ability= Clean Belt
- Hybrid hinges
- Superior Hygienic Performance
- Lightweight
- Unique lock-pin system
- Hinge driven
- UltraClean Two-Part sprocket compatible
- Low cost of ownership



#### LOW COST OF OWNERSHIP

- Simple cleaning& short cleaning times
- Reduces volume of cleaning water
- Simple to mount and dismount belting when needed = reduces manpower
- Easy to lift up during cleaning
- Economical: lower belt weight, lighter drive system = energy savings up to 40%
- Reduces volume of cleaning chemicals

## All features add up to outstanding cleaning performance and food safety.



**Superior** food safety



**Less** detergent



**Less**water
consumption



**Faster** cleaning



**Less** downtime



**Reduced** costs

### **Hygienic Score DTU Cleanability Test**

## Independently Proven

Upon request of Ammeraal Beltech, washdown testing has been performed on four different belt designs to test the hygienic performance and specifically the cleanability of each of these. A procedure suitable for objective soiling, cleaning and evaluation of the belts of different generic designs has been developed. The soiling of the belts were performed on the topside and backside in separate experiments.

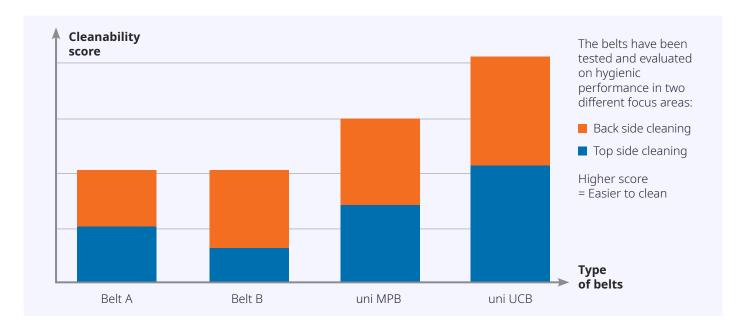
#### uni UCB performed better than three other belt designs:

uni UCB which had the best hygienic performance of all four belts no matter the soiling side. uni UCB had the shortest cleaning time no matter which side the soil was applied to and which side was cleaned.





Testing the hygienic performance



#### The uni UltraClean Two-Part Sprocket

#### - Superior in food safety!

With unique features that combine all the benefits of a traditional two-part sprocket system – ease of installation and replacement, less downtime and lower maintenance costs – with unparalleled advantages in hygiene and cleaning, this innovative belt sprocket is delivering outstanding hygienic performance in demanding applications across the food industry.



