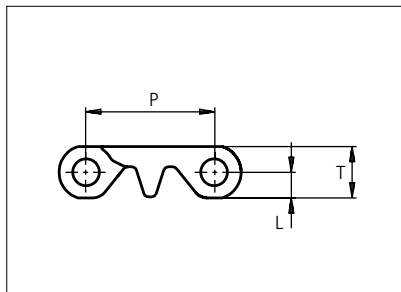




Plastic Modular Belt

Series **uni S-MPB** Type **C**



Straight running belt
 Nominal pitch: 25.4 mm (1.00 in)
 Surface type: Flat
 Surface opening: Closed
 Backflex radius: 23.0 mm (0.91 in)
 Pin diameter: 5 mm (0.20 in)

| Belt material & color | POM-DI W | PP W | PP B | PE-I B N | | mm | in | | mm | in |
|-----------------------|--|--|---|--|---|------|------|---|------|------|
| | | | | | P (Nominal) | 25.4 | 1.00 | T | 10.3 | 0.41 |
| Pin material & color | ⚙️ PP W | | ⚙️ PP B | | ⚙️ PE N | | | | | |
| | | | | | L | 5.2 | 0.20 | - | - | - |

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

Alternative pin and lock materials: ⚙️ Lockpin: PBT LG PA6.6 N D

| 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/PP | | PP/PP | | PE-I/PP | | POM-DI/PP | | PP/PP | | PE-I/PP | | | **Carry (pcs) | **Return (pcs) |
| mm | in | N | lbf | N | lbf | N | lbf | kg/m | lb/ft | kg/m | lb/ft | kg/m | lb/ft | | | |
| 77 | 3.0 | 1810 | 407 | 732 | 164 | 604 | 136 | 0.6 | 0.43 | 0.4 | 0.29 | 0.4 | 0.29 | 2 | 2 | 2 |
| 153 | 6.0 | 3596 | 808 | 1454 | 327 | 1201 | 270 | 1.3 | 0.85 | 0.9 | 0.58 | 0.9 | 0.59 | 2 | 2 | 2 |
| 184 | 7.2 | 4317 | 971 | 1745 | 392 | 1442 | 324 | 1.5 | 1.02 | 1.0 | 0.69 | 1.0 | 0.70 | 2 | 2 | 2 |
| 229 | 9.0 | 5382 | 1210 | 2176 | 489 | 1798 | 404 | 1.9 | 1.28 | 1.3 | 0.86 | 1.3 | 0.88 | 2 | 2 | 2 |
| 305 | 12.0 | 7168 | 1611 | 2898 | 651 | 2394 | 538 | 2.5 | 1.70 | 1.7 | 1.15 | 1.7 | 1.17 | 3 | 3 | 2 |
| 381 | 15.0 | 8954 | 2013 | 3620 | 814 | 2991 | 672 | 3.2 | 2.13 | 2.1 | 1.43 | 2.2 | 1.46 | 3 | 3 | 2 |
| 457 | 18.0 | 10740 | 2414 | 4342 | 976 | 3588 | 806 | 3.8 | 2.55 | 2.6 | 1.72 | 2.6 | 1.75 | 4 | 4 | 2 |
| 507 | 20.0 | 11910 | 2677 | 4815 | 1082 | 3978 | 894 | 4.2 | 2.83 | 2.8 | 1.91 | 2.9 | 1.94 | 4 | 4 | 2 |
| 533 | 21.0 | 12527 | 2816 | 5064 | 1138 | 4184 | 941 | 4.4 | 2.97 | 3.0 | 2.01 | 3.0 | 2.04 | 4 | 4 | 2 |
| 609 | 24.0 | 14313 | 3218 | 5786 | 1301 | 4781 | 1075 | 5.1 | 3.40 | 3.4 | 2.29 | 3.5 | 2.33 | 5 | 5 | 3 |
| 685 | 27.0 | 16100 | 3619 | 6508 | 1463 | 5378 | 1209 | 5.7 | 3.82 | 3.8 | 2.58 | 3.9 | 2.62 | 5 | 5 | 3 |
| 761 | 30.0 | 17886 | 4021 | 7231 | 1625 | 5975 | 1343 | 6.3 | 4.25 | 4.3 | 2.86 | 4.3 | 2.92 | 6 | 6 | 3 |
| 837 | 33.0 | 19673 | 4422 | 7953 | 1788 | 6571 | 1477 | 6.9 | 4.67 | 4.7 | 3.15 | 4.8 | 3.21 | 6 | 6 | 3 |

Additional standard belt widths are available in steps of 76.0 mm (2.99 in). Additional non-standard belt widths are available in steps of 12.7 mm (0.50 in).

| | | | | | | | | | | | | | | | | |
|------|------|-------|-------|-------|------|-------|------|------|-------|------|------|------|------|----|----|---|
| 1977 | 77.8 | 46460 | 10444 | 18782 | 4222 | 15519 | 3489 | 16.4 | 11.03 | 11.1 | 7.44 | 11.3 | 7.57 | 14 | 14 | 7 |
|------|------|-------|-------|-------|------|-------|------|------|-------|------|------|------|------|----|----|---|

Additional standard belt widths are available in steps of 76.0 mm (2.99 in). Additional non-standard belt widths are available in steps of 12.7 mm (0.50 in).

| | | | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|------|-------|------|------|-------|------|-------|------|-------|----|----|----|
| 2965 | 116.7 | 69678 | 15664 | 28168 | 6332 | 23275 | 5232 | 24.6 | 16.54 | 16.6 | 11.16 | 16.9 | 11.36 | 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-DI 1100 N (247 lbf), PP 500 N (112 lbf), PE 500 N (112 lbf).

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

 = Single Link



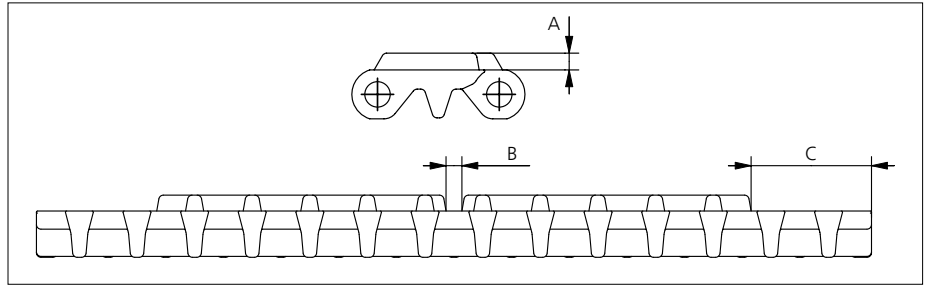
STANDARD

STRAIGHT RUNNING

PITCH 25.4 MM/1.00 IN

Accessories

Rubber Top

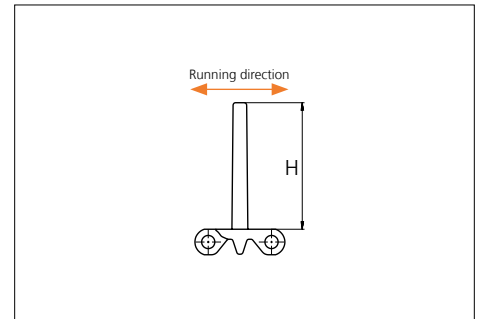
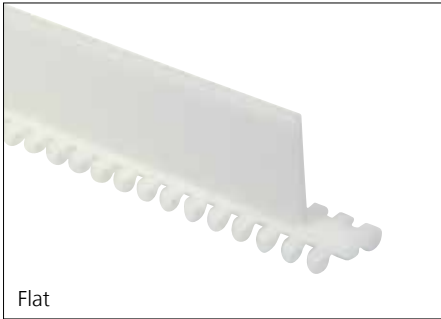


| Type | Belt material & color | Rubber material & color | A | | B | | C | | Link size | Width | |
|------|-----------------------|-------------------------|-----|------|-----|------|------|------|-----------|-------|------|
| | | | mm | in | mm | in | mm | in | | mm | in |
| Flat | PP W B | 03 N K | 3.5 | 0.14 | 3.5 | 0.14 | 26.5 | 1.04 | K725 | 184.2 | 7.25 |

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

Accessories

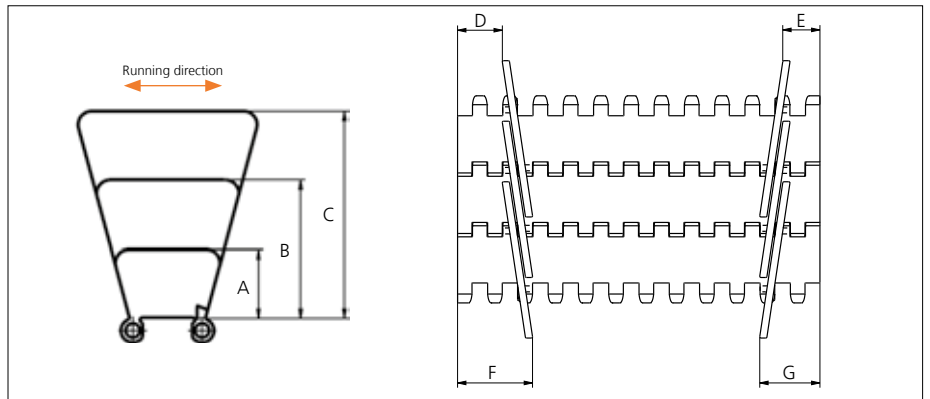
Flight



| Type | Material & color | H | | Link size | Width | | Indent both sides | |
|---------------|--|------|------|-----------|-------|-------|-------------------|------|
| | | mm | in | | mm | in | mm | in |
| 13% Non Stick | POM-D W | 76.2 | 3.00 | K600 | 151.9 | 5.98 | 00.0 | 0.00 |
| Flat | PP-I W B PE-I N B | 50.8 | 2.00 | K2000 | 506.7 | 19.95 | 25.8 | 1.02 |

Accessories

Side Guard



| Type | Material & color | A | | B | | C | | D | | E | | F | | G | |
|--------|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in |
| Closed | PP-I W B | 25.4 | 1.00 | 50.8 | 2.00 | 76.2 | 3.00 | 12.5 | 0.49 | 18.5 | 0.73 | 25.5 | 1.00 | 31.5 | 1.24 |

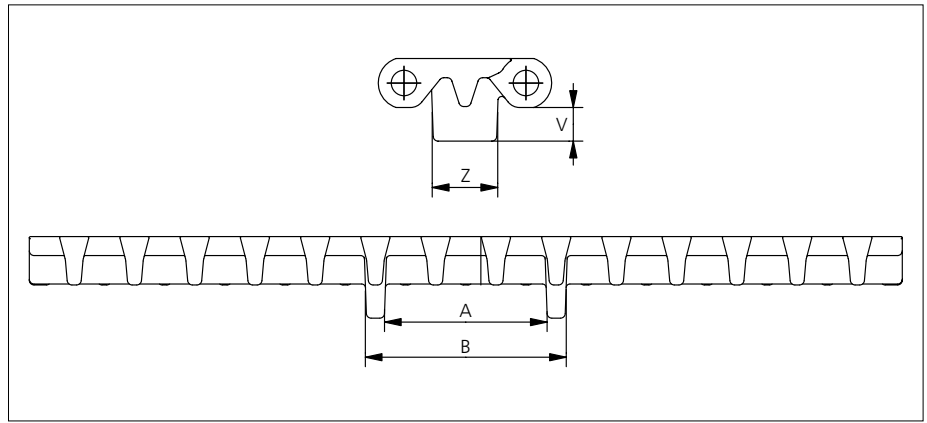
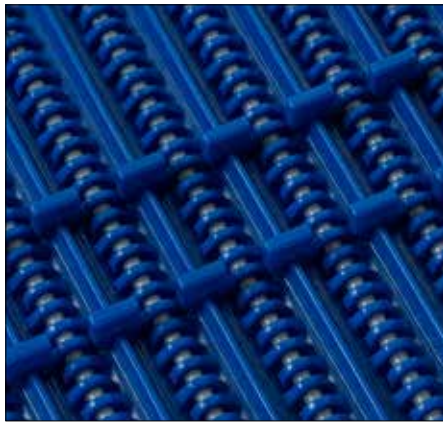
Minimum indent to outside of side guide: 14.0 mm (0.55 in). Increment 6.4 mm (0.25).

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

Backflex radius for Side Guide: 75.0 mm (2.95 in).

Accessories

Tab

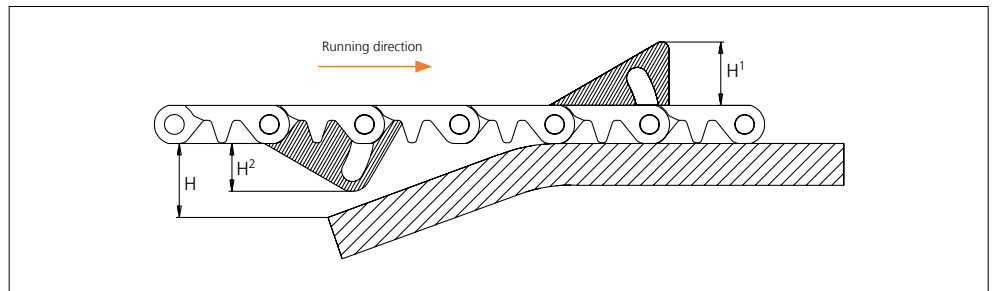
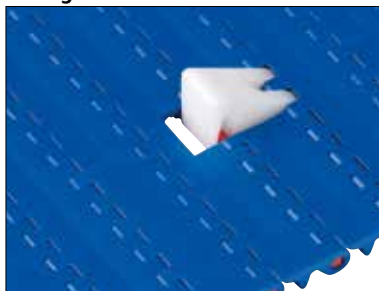


| Type | Belt material & color | V | | Z | | A | | B | | Link size | Width | |
|--------------|----------------------------------|-----|------|------|------|------|------|------|------|-----------|-------|------|
| | | mm | in | mm | in | mm | in | mm | in | | mm | in |
| Bottom Guide | POM-DI W PP W B | 7.0 | 0.28 | 13.9 | 0.55 | 33.4 | 1.31 | 42.8 | 1.69 | K725 | 184.2 | 7.25 |

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

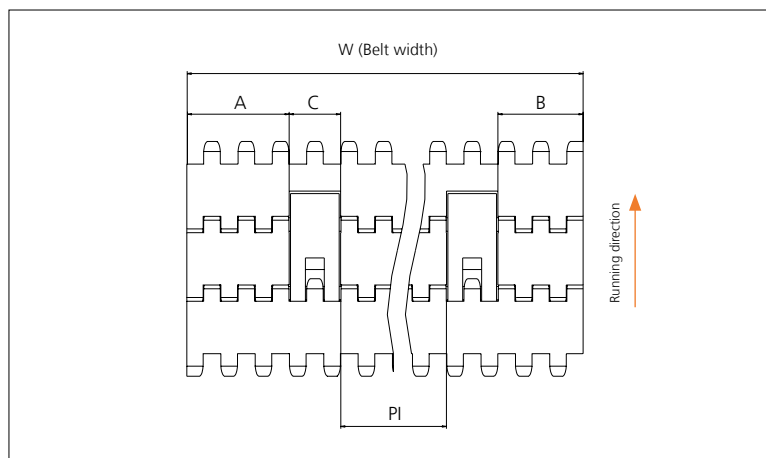
Accessories

AmFlight



| Type | Material & color | H | | H ¹ | | H ² | |
|------|------------------|------|------|----------------|------|----------------|------|
| | | mm | in | mm | in | mm | in |
| Push | PE W | 17.0 | 0.67 | 17.0 | 0.67 | 13.3 | 0.52 |

Other Non Standard option: See uni AmFlight Overview.



| | mm | in |
|---------------|-----------|----------|
| A min | 38.4 | 1.51 |
| B min | 32.1 | 1.26 |
| C | 18.0 | 0.71 |
| PI max | W - 106.5 | W - 4.19 |
| PI min | 32.8 | 1.29 |

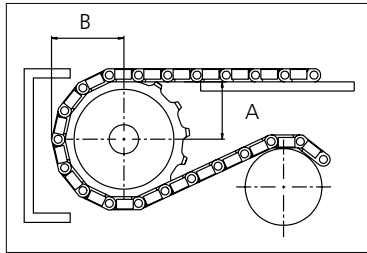
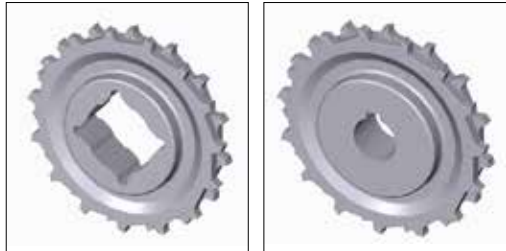
Increment: 12.7 mm (0.50 in).

Sprocket

| No. of teeth | Bore size | | | | | | | | | | | | | Overall diameter | | Pitch diameter | | Hub-diameter | | A-dimension | | B-dimension | | Single row/Two way | Double row/Two way | Molded PA6 LG | Machined PA6 N |
|--------------|------------|----|------|------|------|------|------|------|------|------|------|------|------|------------------|-------|----------------|-------|--------------|-------|-------------|-------|-------------|-------|--------------------|--------------------|---------------|----------------|
| | 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 | 19.05 | 20.00 | 25.00 | 25.40 | 30.00 | 31.75 | 38.10 | 40.00 | 60.00 | 63.50 | 90.00 | | |
| Z06 | x | | ● | ● | | | | | | | | | | 48.9 | 1.92 | 50.8 | 2.00 | 33 | 1.30 | 16.9 | 0.67 | 30,75 | 1.21 | | x | x | |
| Z08 | x | | | | | ● | ● | ● | | | | | | 65.6 | 2.58 | 66.4 | 2.61 | 50 | 1.97 | 25.56 | 1.01 | 38,53 | 1.51 | | x | x | |
| Z10 | x | | | | | ● | ● | ● | | ● | | | | 82.2 | 3.23 | 82.2 | 3.24 | 66 | 2.6 | 34 | 1.34 | 46,44 | 1.82 | | x | x | |
| Z12 | x | | | | | ● | ● | ● | | ● | ■ | | | 98.6 | 3.88 | 98.1 | 3.86 | 70 | 2.76 | 42.3 | 1.67 | 54,42 | 2.14 | | x | x | |
| Z15 | x | | | | | ● | ● | ● | ■ | ● | ■ | ■ | | 123.1 | 4.84 | 122.2 | 4.81 | 70 | 2.76 | 54.54 | 2.15 | 66,43 | 2.62 | | x | x | |
| Z20 | x | | | | | | ● | ● | ● | ■ | ■ | ■ | | 163.8 | 6.44 | 162.4 | 6.39 | 70 | 2.76 | 75.08 | 2.96 | 86,53 | 3.41 | | x | x | |

■ Molded sprocket

● 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 = 12.7 mm (0.50 in)
 Width of sprocket = 25.0 mm (0.98 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 S-MPB.
 For more detailed sprocket information, contact Customer Service.

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

uni S-MPB C/150204



Expert advice, quality solutions and local service for all your belting needs
www.ammeraalbeltech.com

Ammeraal Beltech Modular A/S
 Hjulmagervej 21
 DK-7100 Vejle

T +45 7572 3100
 F +45 7572 3348
 admin@unichains.com
 www.unichains.com

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