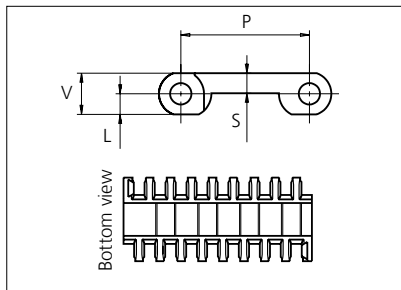




Plastic Modular Belt

Series **uni OPB 8** Type **C**



Straight running belt
 Nominal pitch: 50.0 mm (1.97 in)
 Surface type: Flat
 Surface opening: Closed
 Backflex radius: 75.0 mm (3.00 in)
 Pin diameter: 8 mm (1.97 in)

*uni-chains recommends this travel direction. However, travel in both directions is possible.

| | | | | | | | |
|---|----------------|--------------------|------|------|----------|------|------|
| Recommended belt material & color | POM-D W | | mm | in | | mm | in |
| | | P (Nominal) | 50.0 | 1.97 | V | 16.0 | 0.63 |
| Recommended pin and lock material & color | PP W | | | | | | |
| | | L | 8.0 | 0.31 | S | 7.8 | 0.31 |

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

Alternative materials: Belt: POM-LF, POM-SLF, PP, PE, PA6.6 and PA6.6H Rodlock: PP **W** Endlock: PP **W G B** and PE **W B**
 Lockpin: PE **W** PA6.6 **N** PP **W** Pin: PP **W** PE **W** SS304 and SS316

| 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/PA6.6 | | PP/PA6.6 | | PE/PA6.6 | | POM-D/PA6.6 | | PP/PA6.6 | | PE/PA6.6 | | | **Carry (pcs) | **Return (pcs) |
| mm | in | N | lbf | N | lbf | N | lbf | kg/m | lb/ft | kg/m | lb/ft | kg/m | lb/ft | | | |
| 118 | 4.6 | 2596 | 584 | 1298 | 292 | 779 | 175 | 1.3 | 0.89 | 0.9 | 0.59 | 1.0 | 0.64 | 2 | 2 | 2 |
| 151 | 5.9 | 3322 | 747 | 1661 | 373 | 997 | 224 | 1.7 | 1.14 | 1.1 | 0.76 | 1.2 | 0.82 | 2 | 2 | 2 |
| 185 | 7.3 | 4070 | 915 | 2035 | 457 | 1221 | 274 | 2.1 | 1.39 | 1.4 | 0.93 | 1.5 | 1.01 | 2 | 2 | 2 |
| 302 | 11.9 | 6644 | 1494 | 3322 | 747 | 1993 | 448 | 3.4 | 2.27 | 2.3 | 1.52 | 2.4 | 1.64 | 3 | 3 | 2 |
| 453 | 17.8 | 9966 | 2240 | 4983 | 1120 | 2990 | 672 | 5.1 | 3.41 | 3.4 | 2.28 | 3.7 | 2.47 | 4 | 4 | 2 |
| 604 | 23.8 | 13288 | 2987 | 6644 | 1494 | 3986 | 896 | 6.8 | 4.55 | 4.5 | 3.04 | 4.9 | 3.29 | 5 | 5 | 3 |
| 755 | 29.7 | 16610 | 3734 | 8305 | 1867 | 4983 | 1120 | 8.5 | 5.68 | 5.7 | 3.81 | 6.1 | 4.11 | 6 | 6 | 3 |
| 906 | 35.7 | 19932 | 4481 | 9966 | 2240 | 5980 | 1344 | 10.1 | 6.82 | 6.8 | 4.57 | 7.3 | 4.93 | 7 | 7 | 4 |
| 1057 | 41.6 | 23254 | 5227 | 11627 | 2614 | 6976 | 1568 | 11.8 | 7.96 | 7.9 | 5.33 | 8.6 | 5.75 | 8 | 8 | 4 |
| 1208 | 47.6 | 26576 | 5974 | 13288 | 2987 | 7973 | 1792 | 13.5 | 9.09 | 9.1 | 6.09 | 9.8 | 6.58 | 9 | 9 | 5 |
| 1359 | 53.5 | 29898 | 6721 | 14949 | 3361 | 8969 | 2016 | 15.2 | 10.23 | 10.2 | 6.85 | 11.0 | 7.40 | 10 | 10 | 5 |
| 1510 | 59.4 | 33220 | 7468 | 16610 | 3734 | 9966 | 2240 | 16.9 | 11.37 | 11.3 | 7.61 | 12.2 | 8.22 | 11 | 11 | 6 |
| 1661 | 65.4 | 36542 | 8215 | 18271 | 4107 | 10963 | 2464 | 18.6 | 12.50 | 12.5 | 8.37 | 13.5 | 9.04 | 12 | 12 | 6 |

Additional standard belt widths are available in steps of 151.0 mm (5.94 in). Additional non-standard belt widths are available in steps of 33.6 mm (1.32 in).

| | | | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|------|-------|------|------|-------|------|-------|------|-------|----|----|---|
| 2567 | 101.1 | 56474 | 12695 | 28237 | 6348 | 16942 | 3809 | 28.8 | 19.32 | 19.3 | 12.94 | 20.8 | 13.97 | 18 | 18 | 9 |
|------|-------|-------|-------|-------|------|-------|------|------|-------|------|-------|------|-------|----|----|---|

Additional standard belt widths are available in steps of 151.0 mm (5.94 in). Additional non-standard belt widths are available in steps of 33.6 mm (1.32 in).

| | | | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|------|-------|------|------|-------|------|-------|------|-------|----|----|----|
| 2869 | 113.0 | 63118 | 14189 | 31559 | 7094 | 18935 | 4257 | 32.1 | 21.59 | 21.5 | 14.46 | 23.2 | 15.62 | 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 2500 N (562 lbf), PP 1200 N (270 lbf), PE 500 N (270 lbf)

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

= Single Link



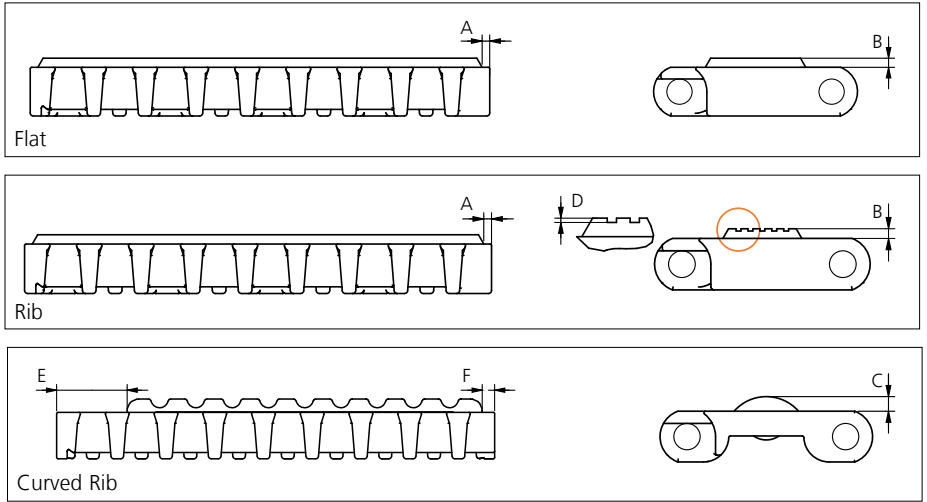
NON STANDARD

STRAIGHT RUNNING

PITCH 50.0 MM/1.97 IN

Accessories

Rubber Top

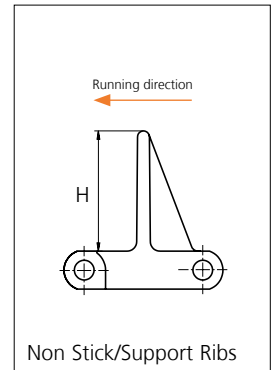
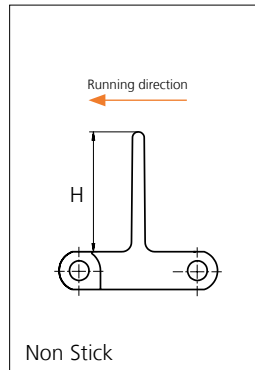


| Type | Belt Material & color | Rubber Material & color | A | | B | | C | | D | | E | | F | | Link size | Width | |
|------------|-----------------------|-------------------------|-----|------|-----|------|-----|------|-----|------|------|------|-----|------|-----------|-------|------|
| | | | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | | mm | in |
| Flat | POM-LF BR | 03 N | | | | | | | | | | | | | | | |
| Rib | POM-D W | | 2.5 | 0.10 | 3.0 | 0.12 | 4.5 | 0.18 | 0.7 | 0.03 | 24.0 | 0.94 | 4.0 | 0.16 | K600 | 150.5 | 5.93 |
| Curved Rib | POM-D W | 03 K | | | | | | | | | | | | | | | |

Other Non Standard Rubber profiles: See uni Rubber Profile Overview.

Accessories

Flight

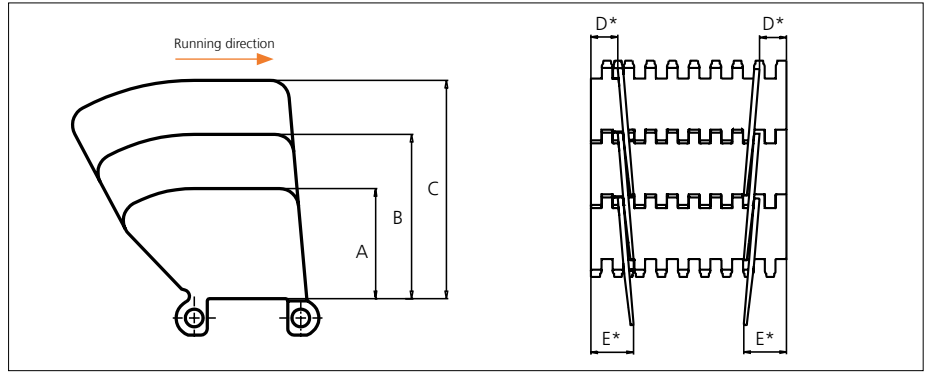


| Type | Recommended Material & color | H | | Link size | Width | | Indent | |
|--------------|------------------------------|-------|------|-----------|-------|------|--------|------|
| | | mm | in | | mm | in | mm | in |
| Non Stick | PP-HW B | 50.8 | 2.00 | K600 | 151.0 | 5.94 | 0.0 | 0.00 |
| Non Stick/ | | 76.2 | 3.00 | | | | | |
| Support Ribs | | 101.6 | 4.00 | | | | | |

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

Accessories

Side Guard



| Type | Recommended Material & color | A | | B | | C | | D* | | E* | |
|--------|------------------------------|------|------|------|------|-------|------|------|------|------|------|
| | | mm | in | mm | in | mm | in | mm | in | mm | in |
| Closed | PP-HW B | 51.8 | 2.04 | 77.2 | 3.04 | 102.6 | 4.04 | 21.0 | 0.83 | 34.0 | 1.34 |

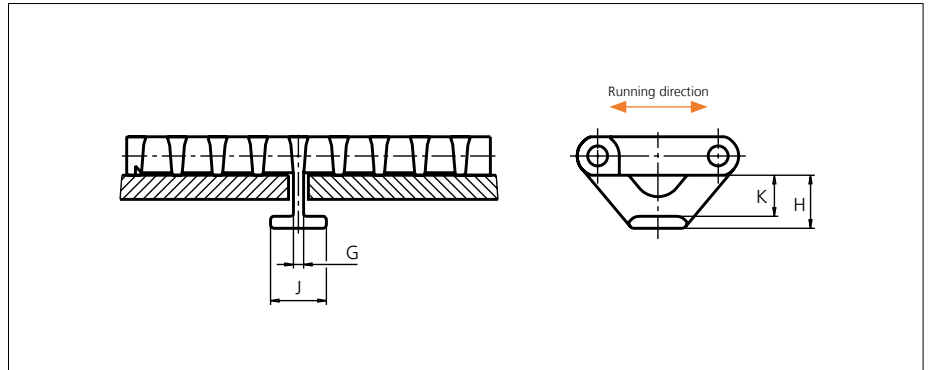
* Min. indent Increment : 8.4 mm (0.33 in)

Note: Backflex radius when side guard are used: 200.0 mm (7.90 in)

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

Accessories

Tab

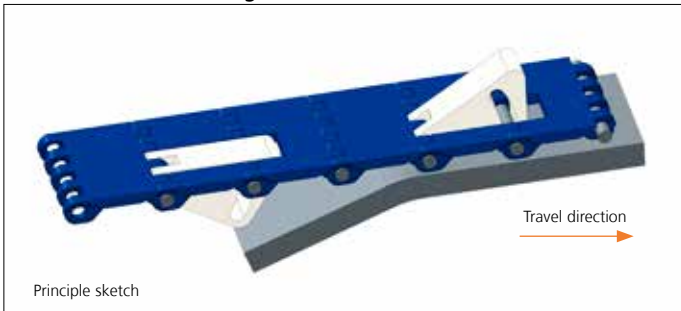


| Type | Recommended material & color | G | | H | | J | | K | |
|------------------|------------------------------|-----|------|------|------|------|------|------|------|
| | | mm | in | mm | in | mm | in | mm | in |
| Bottom Hold Down | POM-D N | 4.2 | 0.17 | 22.0 | 0.87 | 23.2 | 0.92 | 17.0 | 0.67 |
| | POM-LF B | | | | | | | | |
| | PP W | | | | | | | | |

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

Accessories

Non Standard uni AmFlight



Other Non Standard option: See uni AmFlight Overview.

Sprocket

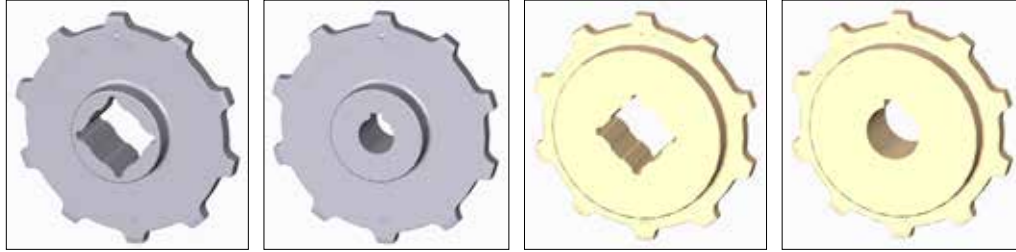
| No. of teeth | Bore size | | | | | | | | | | | | | Overall diameter | | Pitch-diameter | | Hub-diameter | | Dimension A | | Dimension B | | Single row/Two way | Double row/Two way | Molded PA6 LG | Machined PA6 N |
|--------------|------------|------|------|------|------|------|------|------|------|------|------|------|-------|------------------|-------|----------------|-----|--------------|-------|-------------|-------|-------------|---|--------------------|--------------------|---------------|----------------|
| | 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 | 19.1 | 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 | | | | | | | |
| Z06 | x | | | | ● | ● | ● | ■ | ■ | | | | 94.5 | 3.72 | 100.3 | 3.95 | 65 | 2.56 | 35.5 | 1.40 | 58.6 | 2.31 | x | | x | | |
| Z08 | x | | | | ● | ● | ● | ■ | ■ | | | | 129 | 5.08 | 131.1 | 5.16 | 65 | 2.56 | 52.6 | 2.07 | 74 | 2.91 | x | | x | | |
| Z10 | x | | | | | ● | ● | ■ | ■ | | | | 160.1 | 6.30 | 162.4 | 6.39 | 65 | 2.56 | 69.2 | 2.72 | 89.7 | 3.53 | x | | x | | |
| Z12 | x | | | | | ● | ● | ■ | ■ | | | | 191.5 | 7.54 | 193.9 | 7.63 | 65 | 2.56 | 85.7 | 3.37 | 105.5 | 4.15 | x | | x | | |
| Z13 | x | | | | | ● | | ■ | ■ | | | | 207.3 | 8.16 | 209.7 | 8.26 | 72 | 2.83 | 93.8 | 3.69 | 113.4 | 4.46 | x | | x | | |
| Z13 | | | | | | | | | | | ■ | | 207.3 | 8.16 | 209.7 | 8.26 | 150 | 5.91 | 93.8 | 3.69 | 113.4 | 4.46 | x | | | x | |
| Z16 | x | | | | | ● | | ■ | ■ | | ■ | | 254.8 | 10.03 | 257.3 | 10.13 | 200 | 7.87 | 118.2 | 4.65 | 137.1 | 5.40 | x | | | x | |

■ Molded sprocket

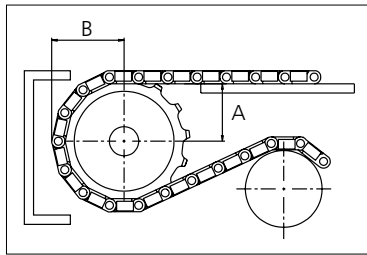
● Molded sprocket

■ 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 tooth = 11.0 mm (0.43 in)
 Width of sprocket = 42.3 mm (1.67 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 OPB.
 For more detailed sprocket information, contact Customer Service.

uni OPB 8 C/160707



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