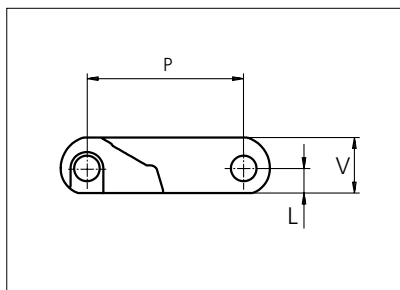




# Plastic Modular Belt

Series **uni CPB** Type **M2 C**



Straight running belt  
Nominal pitch: 50.8 mm (2.00 in)  
Surface type: Flat  
Surface opening: Closed  
Backflex radius: 85.0 mm (3.30 in)  
Pin diameter: ø8.0 mm (0.31 in)

| Recommended Belt material & color | POM-NLAS <b>K</b> |             | mm   | in   |   | mm   | in   |
|-----------------------------------|-------------------|-------------|------|------|---|------|------|
| Recommended Pin material & color  | PA6.6 <b>N</b>    | P (Nominal) | 50.8 | 2.00 | V | 19.0 | 0.75 |
|                                   |                   | L           | 8.0  | 0.31 | - | -    | -    |

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

Alternative pin and lock materials: Lockpin: PBT **LG** SS420

| Belt width |      | Permissible tensile force<br>(Belt/pin material) |      |          |      | Belt weight<br>(Belt/pin material) |       |          |       | *Min. No.<br>drive<br>sprocket<br>per shaft | Number of wear<br>strips (Min. No.) |                   |
|------------|------|--------------------------------------------------|------|----------|------|------------------------------------|-------|----------|-------|---------------------------------------------|-------------------------------------|-------------------|
|            |      | POM-NLAS / PA6.6<br>POM-NL / PA6.6               |      | PP/PA6.6 |      | POM-NLAS / PA6.6<br>POM-NL / PA6.6 |       | PP/PA6.6 |       |                                             | **Carry<br>(pcs)                    | **Return<br>(pcs) |
| mm         | in   | N                                                | lbf  | N        | lbf  | kg/m                               | lb/ft | kg/m     | lb/ft |                                             |                                     |                   |
| 151        | 5.9  | 7852                                             | 1765 | 5285     | 1188 | 2.5                                | 1.68  | 1.7      | 1.13  | 2                                           | 2                                   | 2                 |
| 202        | 8.0  | 10504                                            | 2361 | 7070     | 1589 | 3.4                                | 2.25  | 2.2      | 1.51  | 2                                           | 2                                   | 2                 |
| 252        | 9.9  | 13104                                            | 2946 | 8820     | 1983 | 4.2                                | 2.81  | 2.8      | 1.88  | 2                                           | 2                                   | 2                 |
| 302        | 11.9 | 15704                                            | 3530 | 10570    | 2376 | 5.0                                | 3.37  | 3.4      | 2.25  | 3                                           | 3                                   | 2                 |
| 352        | 13.9 | 18304                                            | 4115 | 12320    | 2770 | 5.8                                | 3.93  | 3.9      | 2.63  | 3                                           | 3                                   | 2                 |
| 403        | 15.9 | 20956                                            | 4711 | 14105    | 3171 | 6.7                                | 4.50  | 4.5      | 3.01  | 3                                           | 3                                   | 2                 |
| 453        | 17.8 | 23556                                            | 5295 | 15855    | 3564 | 7.5                                | 5.05  | 5.0      | 3.38  | 4                                           | 4                                   | 2                 |
| 503        | 19.8 | 26156                                            | 5880 | 17605    | 3958 | 8.3                                | 5.61  | 5.6      | 3.75  | 4                                           | 4                                   | 2                 |
| 553        | 21.8 | 28756                                            | 6464 | 19355    | 4351 | 9.2                                | 6.17  | 6.1      | 4.13  | 4                                           | 4                                   | 2                 |
| 604        | 23.8 | 31408                                            | 7061 | 21140    | 4752 | 10.0                               | 6.74  | 6.7      | 4.51  | 5                                           | 5                                   | 3                 |
| 654        | 25.7 | 34008                                            | 7645 | 22890    | 5146 | 10.9                               | 7.30  | 7.3      | 4.88  | 5                                           | 5                                   | 3                 |
| 704        | 27.7 | 36608                                            | 8229 | 24640    | 5539 | 11.7                               | 7.85  | 7.8      | 5.25  | 5                                           | 5                                   | 3                 |
| 754        | 29.7 | 39208                                            | 8814 | 26390    | 5932 | 12.5                               | 8.41  | 8.4      | 5.62  | 6                                           | 6                                   | 3                 |

Additional standard belt widths are available in steps of 50.3 mm (1.98 in.) Additional non-standard belt widths are available in steps of mm 16.8 (0.66 in.)

|      |      |        |       |       |       |      |       |      |       |    |    |   |
|------|------|--------|-------|-------|-------|------|-------|------|-------|----|----|---|
| 1961 | 77.2 | 101972 | 22923 | 68635 | 15429 | 32.6 | 21.88 | 21.8 | 14.63 | 14 | 14 | 7 |
|------|------|--------|-------|-------|-------|------|-------|------|-------|----|----|---|

Additional standard belt widths are available in steps of 50.3 mm (1.98 in.) Additional non-standard belt widths are available in steps of mm 16.8 (0.66 in.)

|      |       |        |       |        |       |      |       |      |       |    |    |    |
|------|-------|--------|-------|--------|-------|------|-------|------|-------|----|----|----|
| 2966 | 116.8 | 154232 | 34671 | 103810 | 23336 | 49.2 | 33.09 | 32.9 | 22.13 | 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.

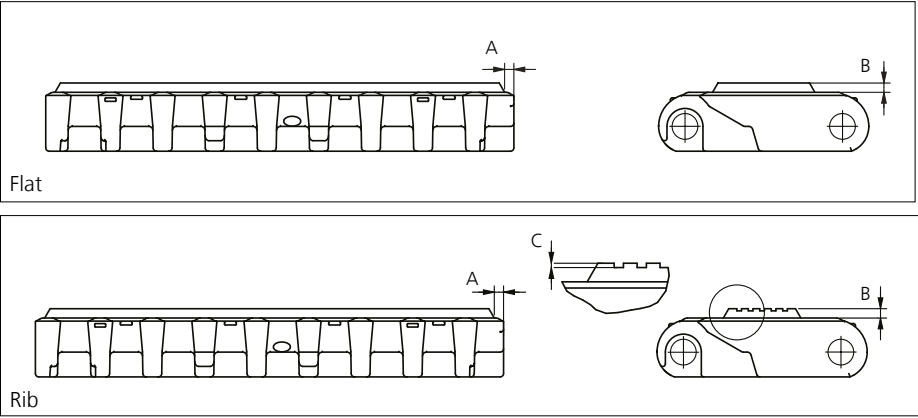
\*Max. Load per Drive Sprocket. Belt material: POM-NLAS 2500 N (560 lbf). POM-NL 2500 N (560 lbf). PP 2500 N (560 lbf)

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

= Single Link

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 | POM-NL <b>K</b>       | 09 <b>K</b>             | 2.5 | 0.09 | 3.0 | 0.12 | 0.7 | 0.02 | K600      | 150.5 | 5.93 |
| Rib  |                       |                         |     |      |     |      |     |      |           |       |      |

The color of standard rubber material is black. However, as it is hardly possible to see black rubber on black links, the links are illustrated with rubber in color natural. Other Non Standard Rubber profiles: See uni Rubber Profile Overview.

Accessories

Top/Bottom Insert

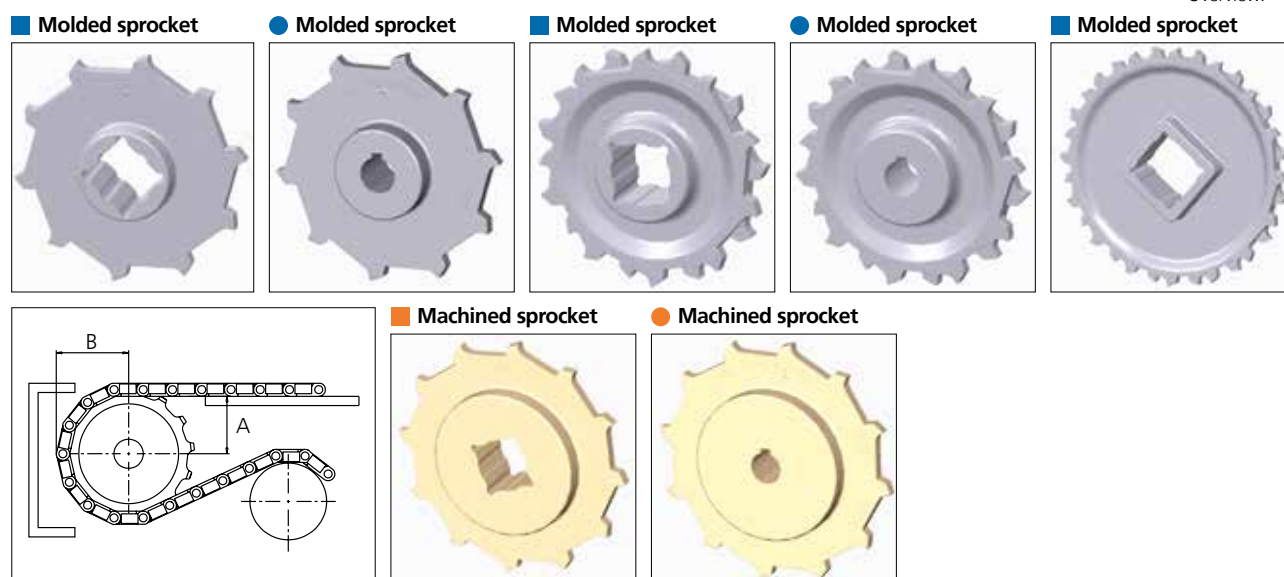


The thread inserts allow for easy attachment of fixturers to the belt.  
Available insert size M5.  
Depending on the size and shape of the attachment, attention should be paid as to how it will influence on the backflex radius of the belt.

# Sprocket

| No of teeth | Bore size  |    |      |      |      |      |      |      |      |      |      |      |      |       | Overall diameter |       | Pitch-diameter |       | Hub-diameter |       | A-dimen-sion |       | B-dimen-sion |      | Single row/One way | Double row/Two way | LG   | 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 |
| Z06         | x          |    |      |      |      | ●    | ●    | ●    | ■    | ■    |      |      |      | 99.5  | 3.92             | 101.6 | 4.00           | 65.0  | 2.56         | 36.0  | 1.42         | 59.3  | 2.33         | x    |                    | x                  |      |    |
| Z08         | x          |    |      |      |      | ●    | ●    | ●    | ■    | ■    |      |      |      | 132.9 | 5.23             | 132.8 | 5.23           | 65.0  | 2.56         | 53.3  | 2.10         | 74.9  | 2.95         | 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                  | x                  |      |    |
| Z10         |            |    |      |      |      |      |      |      |      |      | ■    | ■    |      | 166.3 | 6.55             | 164.4 | 6.47           | 120.0 | 4.72         | 70.2  | 2.76         | 90.7  | 3.57         | x    | x                  | x                  |      |    |
| Z12         | x          |    |      |      |      | ●    | ●    | ■    | ■    | ■    | ■    | ■    |      | 198.6 | 7.82             | 196.3 | 7.73           | 120.0 | 4.72         | 86.8  | 3.42         | 106.6 | 4.20         | x    | x                  | x                  |      |    |
| Z16         | x          |    |      |      |      | ●    | ●    | ■    | ■    | ■    | ■    | ■    | ■    | 263.8 | 10.39            | 260.4 | 10.25          | 160.0 | 5.90         | 119.7 | 4.71         | 138.7 | 5.46         |      | 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    |    |

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 CPB.

For more detailed sprocket information. contact Customer Service.



Conveyor



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Modular



Timing



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