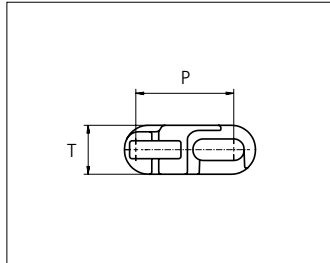
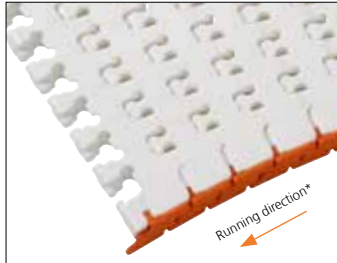




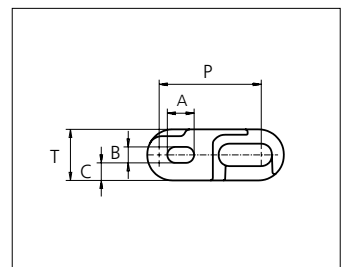
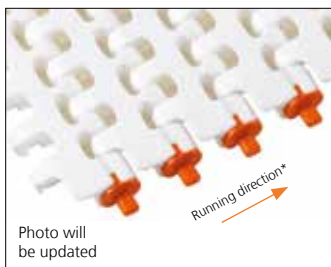
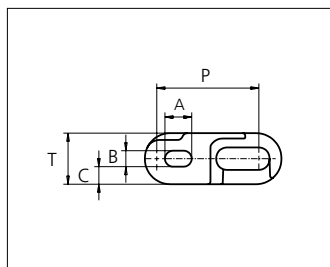
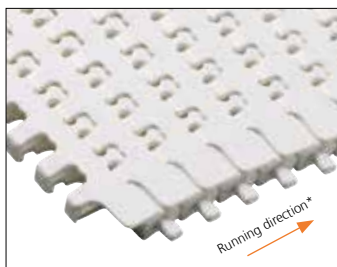
# Plastic Modular Belt

## Series uni Flex ONE



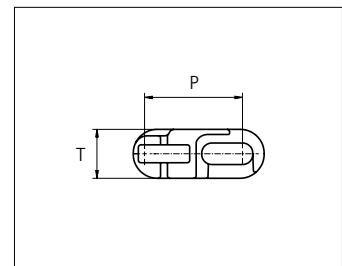
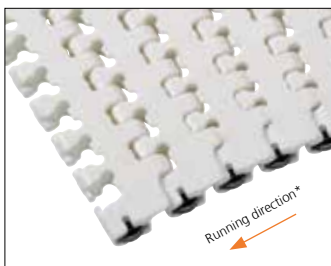
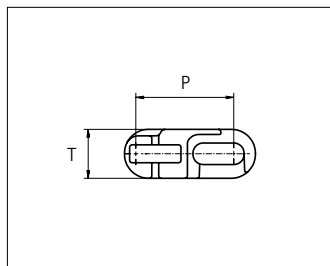
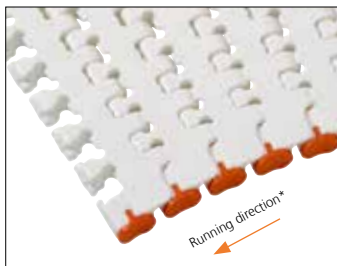
Sideflexing belt  
 Nominal pitch: 38.1 mm (1.50 in)  
 Surface type: Flat  
 Surface opening: 15%  
 Backflex radius: 50.0 mm (1.97 in)  
 Min. inside radius R1.6 x belt width

**uni Flex ONE EWC R1.6**  
 Surface Opening: 15%



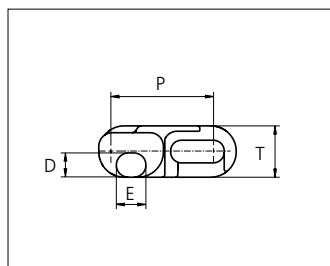
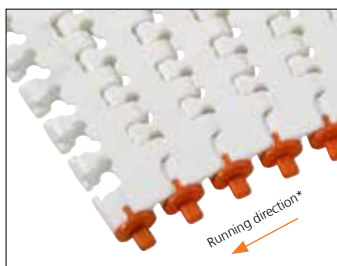
**uni Flex ONE O R1.6**  
 Surface Opening: 15%

**uni Flex ONE EO R1.6**  
 Surface Opening: 15%



**uni Flex ONE EW R1.6**  
 Surface Opening: 15%

**uni Flex ONE ER R1.6**  
 Surface Opening: 15%



**uni Flex ONE EOO R1.6**  
 Surface Opening: 15%

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

|                    | mm   | in   |          | mm   | in   |
|--------------------|------|------|----------|------|------|
| <b>P (Nominal)</b> | 38.1 | 1.50 | <b>D</b> | 9.0  | 0.35 |
| <b>A</b>           | 10.0 | 0.39 | <b>E</b> | 11.0 | 0.43 |
| <b>B</b>           | 5.9  | 0.23 | <b>T</b> | 19.1 | 0.75 |
| <b>C</b>           | 6.6  | 0.26 | -        | -    | -    |

|   |   |
|---|---|
| <b>Belt material &amp; color</b>            | POM-SX <b>W</b> <b>B</b> **   |
| <b>O-Tab, Wearpart material &amp; color</b> | POM DK <b>O</b>   |
| <b>EWC Wearpart material &amp; color</b>    | K750: POM DK <b>Y</b><br>K1200, K1500, K1800: POM DK <b>O</b><br>K2400: POM DK <b>B</b> |

\*\*Please note that uni Flex ONE in POM-SX blue is not according to the standard color quality for blue. Small variations may occur.



STANDARD

SIDE FLEXING

PITCH 38.1 MM/1.50 IN

| Belt width |       |      | Type   | Permissible tensile force<br>Belt/pin material |      |                |     | Belt weight<br>Belt material |       | *Recommended<br>No. drive<br>sprocket<br>per shaft | Number of wear<br>strips (Min No.) |                   |
|------------|-------|------|--------|--|------|----------------|-----|------------------------------|-------|--|------------------------------------|-------------------|
|            |       |      |        | POM-SX   |      |                |     | POM-SX                       |       |  | **Carry<br>(pcs)                   | **Return<br>(pcs) |
| Size       | mm    | in   |        | Straight sections                              |      | Curve sections |     | kg/m                         | lb/ft |  |                                    |                   |
|            |       |      | N      | lbf  | N    | lbf            |     |                              |       |  |                                    |                   |
| K750       | 190.5 | 7.5  | O      | 2400   | 540  | 2000           | 450 | 2.5                          | 1.68  | 2  | 2                                  | 2                 |
|            |       |      | EW     |  |      |                |     | 2.4                          | 1.61  |  |                                    |                   |
|            |       |      | EO/EOO |  |      |                |     | 2.5                          | 1.68  |  |                                    |                   |
|            |       |      | ER     |  |      |                |     | 2.6                          | 1.75  |  |                                    |                   |
|            |       |      | EWC    |  |      |                |     | 2.7                          | 1.81  |  |                                    |                   |
| K1200      | 304.8 | 12.0 | O      | 4000   | 899  | 3400           | 764 | 4.0                          | 2.69  | 4  | 3                                  | 2                 |
|            |       |      | EW     |  |      |                |     | 3.9                          | 2.62  |  |                                    |                   |
|            |       |      | EO/EOO |  |      |                |     | 4.0                          | 2.69  |  |                                    |                   |
|            |       |      | ER     |  |      |                |     | 4.1                          | 2.76  |  |                                    |                   |
|            |       |      | EWC    |  |      |                |     | 4.2                          | 2.82  |  |                                    |                   |
| K1500      | 381.0 | 15.0 | O      | 6400   | 1439 | 3500           | 787 | 4.9                          | 3.29  | 6  | 3                                  | 2                 |
|            |       |      | EW     |  |      |                |     | 4.9                          | 3.29  |  |                                    |                   |
|            |       |      | EO/EOO |  |      |                |     | 4.9                          | 3.29  |  |                                    |                   |
|            |       |      | ER     |  |      |                |     | 5.0                          | 3.36  |  |                                    |                   |
|            |       |      | EWC    |  |      |                |     | 5.1                          | 3.43  |  |                                    |                   |
| K1800      | 457.2 | 18.0 | O      | 8200   | 1843 | 3600           | 809 | 6.1                          | 4.10  | 6  | 4                                  | 2                 |
|            |       |      | EW     |  |      |                |     | 6.1                          | 4.10  |  |                                    |                   |
|            |       |      | EO/EOO |  |      |                |     | 6.1                          | 4.10  |  |                                    |                   |
|            |       |      | ER     |  |      |                |     | 6.2                          | 4.17  |  |                                    |                   |
|            |       |      | EWC    |  |      |                |     | 6.2                          | 4.17  |  |                                    |                   |
| K2400      | 609.6 | 24.0 | O      | 12000  | 2698 | 3800           | 854 | 7.9                          | 5.31  | 6  | 5                                  | 3                 |
|            |       |      | EW     |  |      |                |     | 7.8                          | 5.24  |  |                                    |                   |
|            |       |      | EO/EOO |  |      |                |     | 7.8                          | 5.24  |  |                                    |                   |
|            |       |      | ER     |  |      |                |     | 7.9                          | 5.31  |  |                                    |                   |
|            |       |      | EWC    |  |      |                |     | 8.1                          | 5.44  |  |                                    |                   |

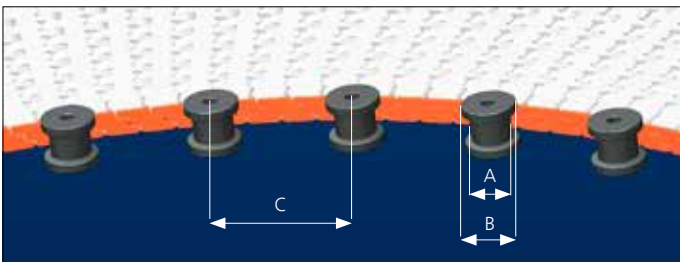
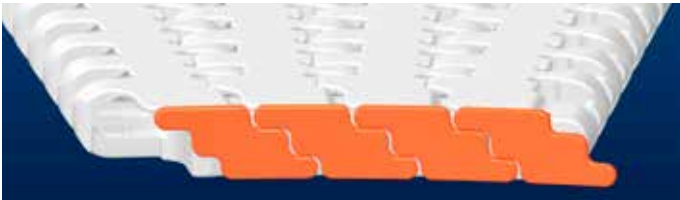
General belt tolerance is +0/-0.4% at 23°C/73°F.

\*Max. Load per Drive Sprocket. Belt material: POM-SX 2500 N (562 lbf).

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

### Design Guide Lines

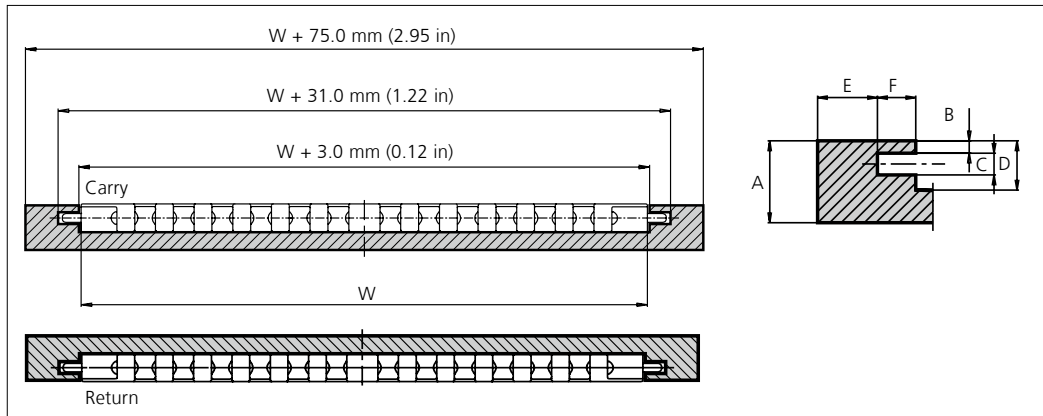
#### uni Flex One EWC



|          | mm                   | in                   |
|----------|----------------------|----------------------|
| <b>A</b> | min $\varnothing$ 30 | min $\varnothing$ 1¼ |
| <b>B</b> | A + min 12           | A + min ½            |
| <b>C</b> | 100-150              | 4-6                  |

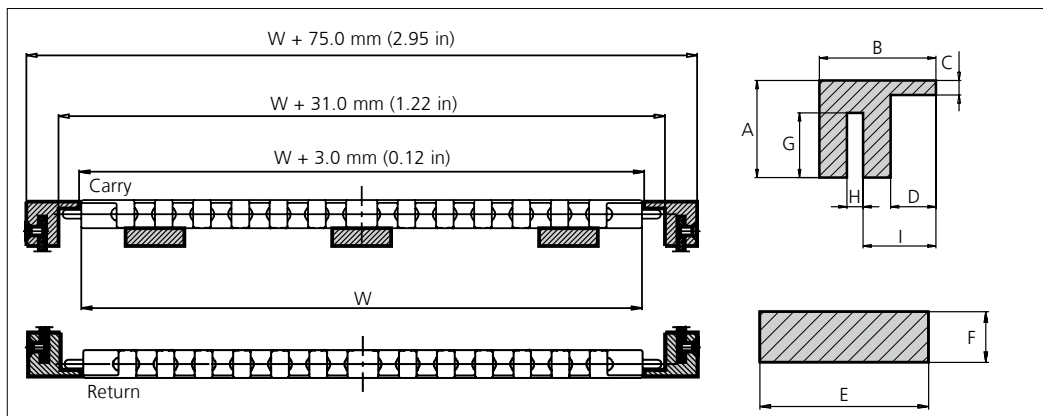
## Profiles for uni Flex ONE O/EO

### Compact Profile Configuration



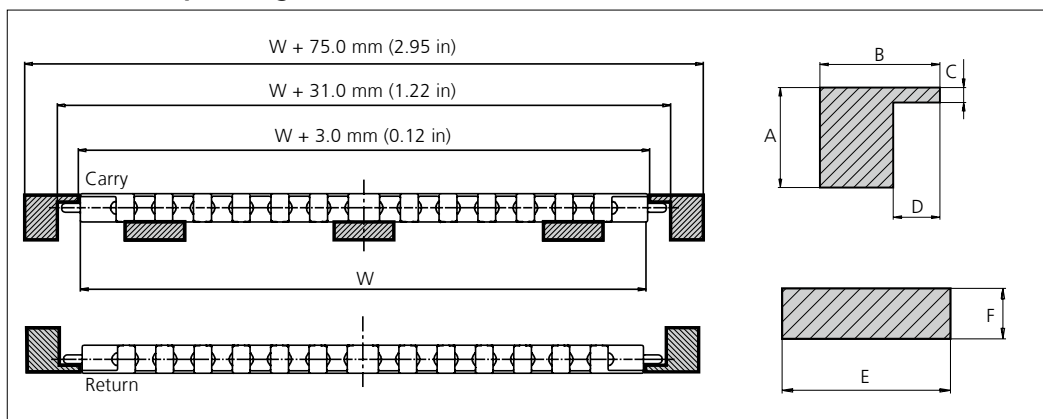
|   | mm   | in   |
|---|------|------|
| A | 30.0 | 1.18 |
| B | 4.5  | 0.18 |
| C | 8.0  | 0.31 |
| D | 18.0 | 0.71 |
| E | 22.0 | 0.87 |
| F | 14.0 | 0.55 |

### Slotted Wearstrip Configuration



|   | mm   | in   |
|---|------|------|
| A | 30.0 | 1.18 |
| B | 36.0 | 1.42 |
| C | 4.5  | 0.18 |
| D | 14.0 | 0.55 |
| E | 40.0 | 1.57 |
| F | 12.0 | 0.47 |
| G | 20.0 | 0.79 |
| H | 5.0  | 0.20 |
| I | 22.5 | 0.89 |

### Solid Wearstrip Configuration



|   | mm   | in   |
|---|------|------|
| A | 30.0 | 1.18 |
| B | 36.0 | 1.42 |
| C | 4.5  | 0.18 |
| D | 14.0 | 0.55 |
| E | 40.0 | 1.57 |
| F | 12.0 | 0.47 |

#### uni Flex ONE O

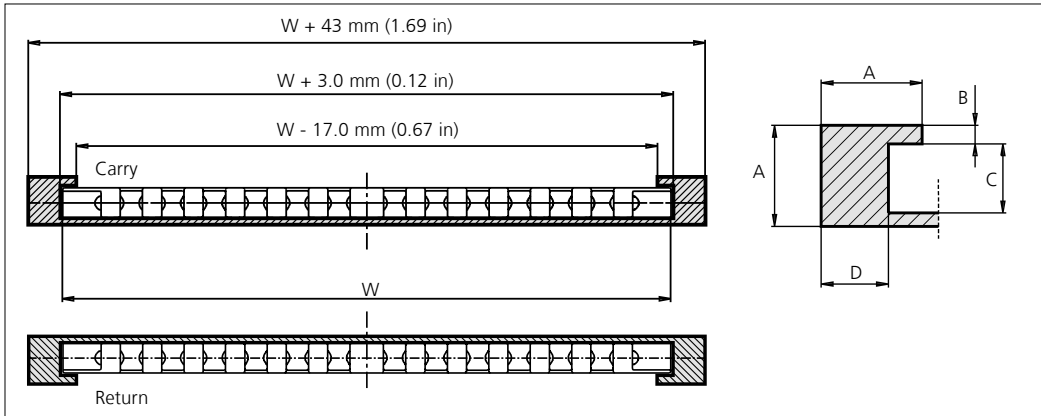
Using the uni Flex ONE with O-Tab and a slotted wearstrip, the O-Tab will allow the transported products to be wider than the belt. O-Tabs are molded into the belt to ensure cleanability and are preferred for direct food contact.

#### uni Flex ONE EO (Exchangeable O-Tab)

Exchangeable O-Tab system is made of heat and wear resistant material to improve performance between the belt edge and the wearstrip. Using a slotted wearstrip the exchangeable O-Tab will track the belt and allow the transported products to be wider than the belt. Resists high curve load at increased speed.

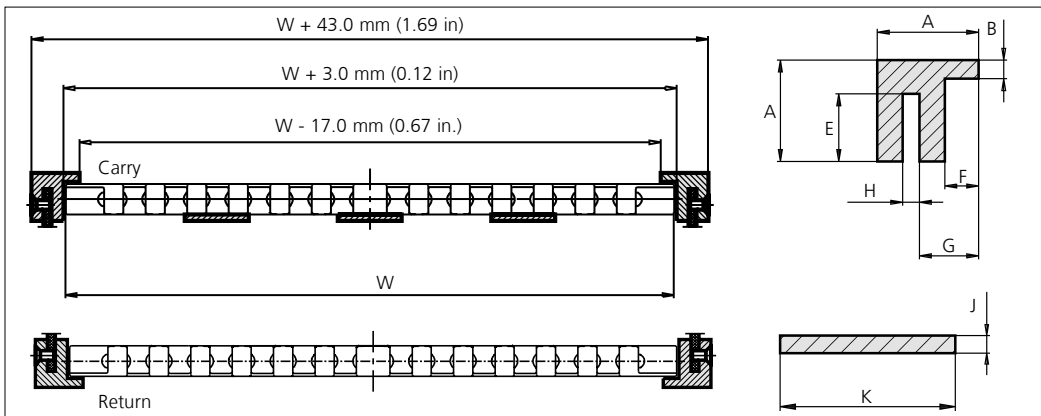
## Profiles for uni Flex ONE EW/ER

### Compact Profile Configuration



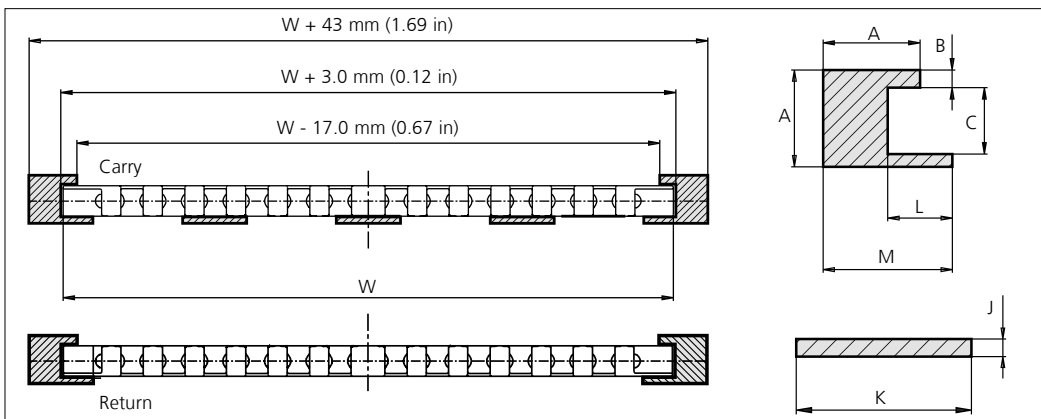
|          | mm   | in   |
|----------|------|------|
| <b>A</b> | 30.0 | 1.18 |
| <b>B</b> | 5.5  | 0.22 |
| <b>C</b> | 20.5 | 0.81 |
| <b>D</b> | 20.0 | 0.79 |

### Slotted Wearstrip Configuration



|          | mm   | in   |
|----------|------|------|
| <b>A</b> | 30.0 | 1.18 |
| <b>B</b> | 5.5  | 0.22 |
| <b>E</b> | 20.0 | 0.79 |
| <b>F</b> | 10.0 | 0.39 |
| <b>G</b> | 17.5 | 0.69 |
| <b>H</b> | 5.0  | 0.20 |
| <b>J</b> | 4.0  | 0.16 |
| <b>K</b> | 40.0 | 1.57 |

### Solid Wearstrip Configuration



|          | mm   | in   |
|----------|------|------|
| <b>A</b> | 30.0 | 1.18 |
| <b>B</b> | 5.5  | 0.22 |
| <b>C</b> | 20.5 | 0.81 |
| <b>J</b> | 4.0  | 0.16 |
| <b>K</b> | 40.0 | 1.57 |
| <b>L</b> | 20.0 | 0.79 |
| <b>M</b> | 40.0 | 1.57 |

#### uni Flex ONE EW (Exchangeable Wearpart)

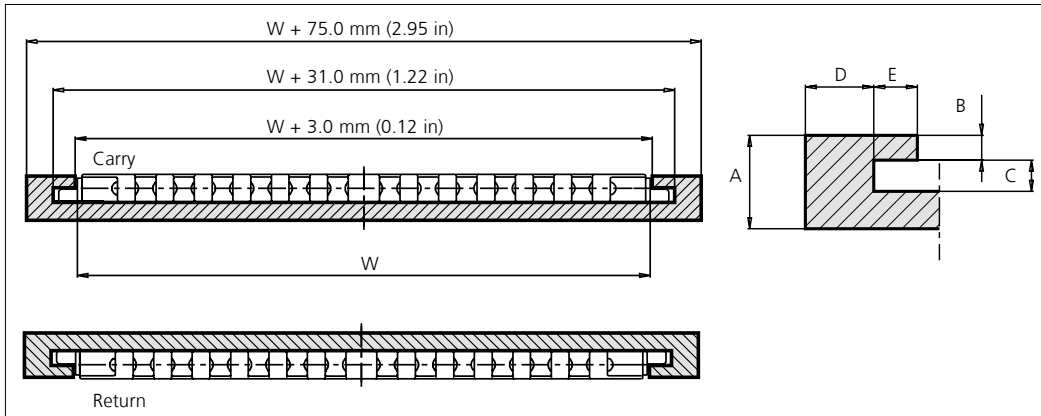
Exchangeable Wearpart system is made of heat and wear resistant material to improve performance between the belt edge and the wearstrip. This Wearpart can easily be replaced. Resists high curve load at increased speed.

#### uni Flex ONE ER (Exchangeable Edge Roller)

uni Flex ONE with Exchangeable Edge Rollers reduces friction in curves to a minimum making it very suitable for applications with many curves e.g. static spirals (non rotating drum) or high speed sideflexing conveyors.

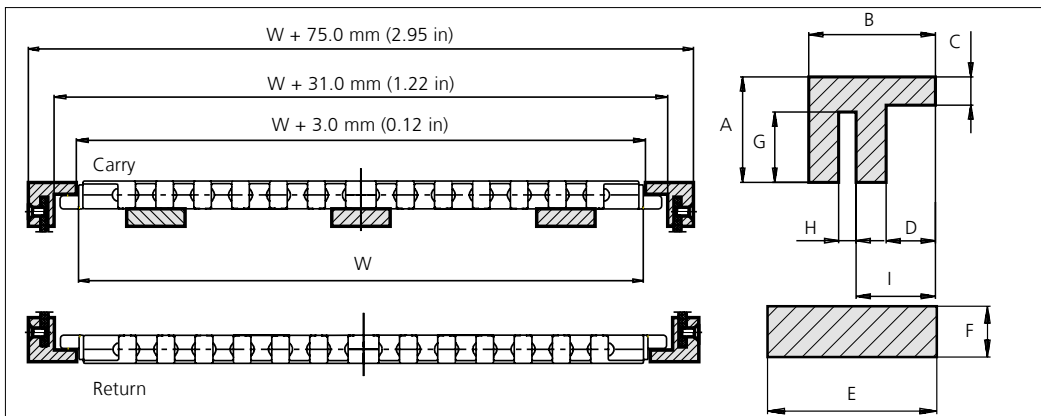
## Profiles for uni Flex ONE EOO

### Compact Profile Configuration



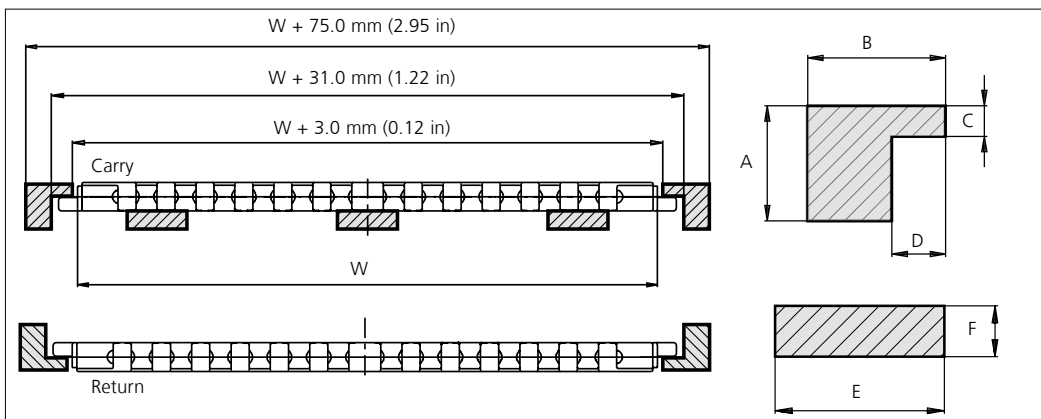
|   | mm   | in   |
|---|------|------|
| A | 30.0 | 1.18 |
| B | 8.0  | 0.31 |
| C | 10.0 | 0.39 |
| D | 22.0 | 0.87 |
| E | 14.0 | 0.55 |

### Slotted Wearstrip Configuration



|   | mm   | in   |
|---|------|------|
| A | 30.0 | 1.18 |
| B | 36.0 | 1.42 |
| C | 8.0  | 0.31 |
| D | 14.0 | 0.55 |
| E | 40.0 | 1.57 |
| F | 12.0 | 0.47 |
| G | 20.0 | 0.79 |
| H | 5.0  | 0.20 |
| I | 22.5 | 0.89 |

### Solid Wearstrip Configuration



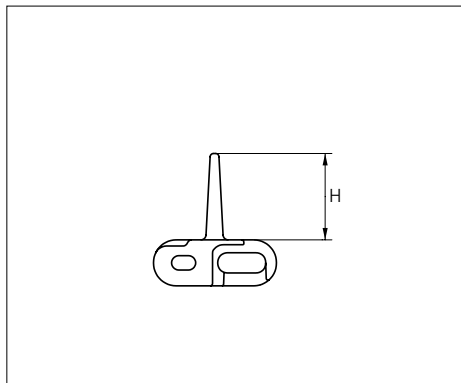
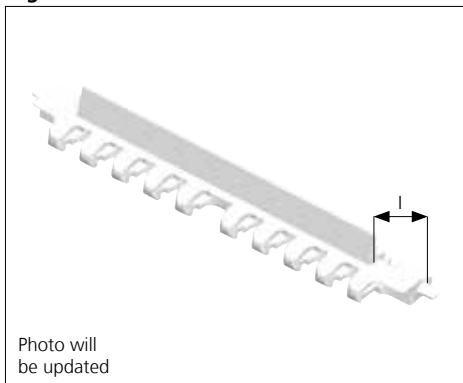
|   | mm   | in   |
|---|------|------|
| A | 30.0 | 1.18 |
| B | 36.0 | 1.42 |
| C | 8.0  | 0.31 |
| D | 14.0 | 0.55 |
| E | 40.0 | 1.57 |
| F | 12.0 | 0.47 |

### uni Flex ONE EOO (Exchangeable Offset O-Tab)

Exchangeable O-Tab system is made of heat and wear resistant material to improve performance between the belt edge and the wearstrip. Using a slotted wearstrip the exchangeable O-Tab will track the belt and allow the transported products to be wider than the belt. Resists high curve load at increased speed.

## Accessories

### Flight

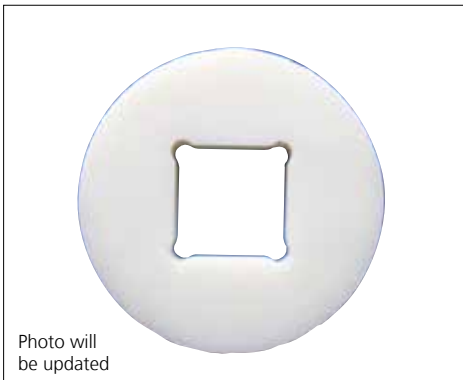


| Type   | Standard belt material & color | Height (H) |      | Indent (I) |      | Link size | Width |      |
|--------|--------------------------------|------------|------|------------|------|-----------|-------|------|
|        |                                | mm         | in   | mm         | in   |           | mm    | in   |
| Flight | POM-SX <b>W</b> <b>B</b> *     | 25.4       | 1.00 | 32.0       | 1.26 | K1200     | 304.8 | 12.0 |

\* Please note that uni Flex ONE in POM-SX blue is not according to the standard color quality for blue. Small variations may occur.  
Non Standard material and color: See uni Material and Color Overview.

## Accessories

### Idler



| Type  | Standard material & color | No. of teeth | Diameter idler |      |
|-------|---------------------------|--------------|----------------|------|
|       |                           |              | mm             | in   |
| Idler | POM-D <b>N</b>            | 8            | 72.9           | 2.87 |
|       |                           | 9            | 85.6           | 3.37 |
|       |                           | 11           | 110.7          | 4.36 |
|       |                           | 12           | 123.1          | 4.85 |
|       |                           | 13           | 135.5          | 5.33 |
|       |                           | 16           | 172.4          | 6.79 |

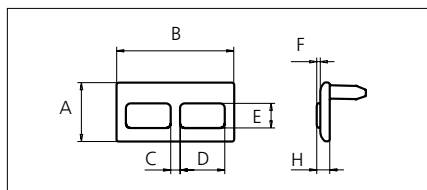
Thickness of idler: 20.0 mm (0.79 in).

Recommended for use at idler end to ensure smooth and low noise operation.

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

## Accessories

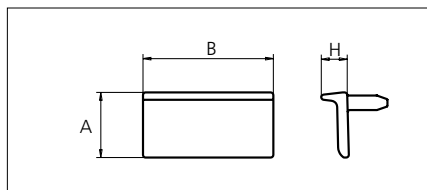
### Clip On Rubber Flat



|          | mm   | in   |
|----------|------|------|
| <b>A</b> | 25.0 | 0.98 |
| <b>B</b> | 50.0 | 1.97 |
| <b>C</b> | 4.0  | 0.16 |
| <b>D</b> | 19.0 | 0.75 |
| <b>E</b> | 10.5 | 0.41 |
| <b>F</b> | 1.5  | 0.06 |

## Accessories

### Clip On Flight

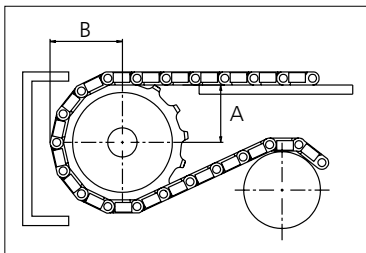


| Type                             | Height (H) |      | Standard materials & colors         |
|----------------------------------|------------|------|-------------------------------------|
|                                  | mm         | in   |                                     |
| uni Flex ONE Clip On Rubber Flat | 5.5        | 0.22 | POM-D <b>O</b> + Rubber 01 <b>K</b> |
| uni Flex ONE Clip On Flight      | 10.0       | 0.39 | POM-D <b>O</b>                      |

## Sprocket

| No. of teeth | Bore size  |      |      |      |      |      |      |       | Overall diameter |       | Pitch diameter |      | Hub diameter |      | Dimension A |       | Dimension B |   | Single row/One way | Molded |
|--------------|------------|------|------|------|------|------|------|-------|------------------|-------|----------------|------|--------------|------|-------------|-------|-------------|---|--------------------|--------|
|              | Pilot Bore | in   | 0.98 | 1.00 | 1.18 | 1.25 | 1.50 | 1.57  |                  |       |                |      |              |      |             |       |             |   |                    |        |
|              | mm         | 25.0 | 25.4 | 30.0 | 31.8 | 38.1 | 40.0 | mm    | in               | mm    | in             | mm   | in           | mm   | in          | mm    | in          |   |                    |        |
| Z08          | ✓          | ■    | ●    | ●    | ●    |      | ●    | 101   | 3.98             | 99.6  | 3.93           | 60.0 | 2.36         | 36.5 | 1.44        | 59.0  | 2.32        | ✓ | ✓                  |        |
| Z09          | ✓          |      | ●    | ●    | ●    |      | ●    | 113.7 | 4.48             | 111.4 | 4.39           | 70.0 | 2.76         | 42.8 | 1.69        | 64.9  | 2.56        | ✓ | ✓                  |        |
| Z09          |            |      |      |      |      | ■    | ■    | 113.7 | 4.48             | 111.4 | 4.39           | 74.0 | 2.91         | 42.8 | 1.69        | 64.9  | 2.56        | ✓ | ✓                  |        |
| Z11          | ✓          |      | ●    | ●    | ●    |      |      | 138.8 | 5.46             | 135.2 | 5.32           | 70.0 | 2.76         | 55.4 | 2.18        | 76.9  | 3.03        | ✓ | ✓                  |        |
| Z11          |            |      |      |      |      | ■    | ■    | 138.8 | 5.46             | 135.2 | 5.32           | 74.0 | 2.91         | 55.4 | 2.18        | 76.9  | 3.03        | ✓ | ✓                  |        |
| Z12          | ✓          |      |      | ●    | ●    | ●    | ●    | 151.2 | 5.95             | 147.2 | 5.80           | 70.0 | 2.76         | 61.6 | 2.43        | 82.9  | 3.26        | ✓ | ✓                  |        |
| Z12          |            |      |      |      |      | ■    | ■    | 151.2 | 5.95             | 147.2 | 5.80           | 74.0 | 2.91         | 61.6 | 2.43        | 82.9  | 3.26        | ✓ | ✓                  |        |
| Z13          | ✓          |      |      | ●    | ●    | ●    | ●    | 163.6 | 6.44             | 159.2 | 6.27           | 70.0 | 2.76         | 67.8 | 2.67        | 88.9  | 3.50        | ✓ | ✓                  |        |
| Z13          |            |      |      |      |      | ■    | ■    | 163.6 | 6.44             | 159.2 | 6.27           | 74.0 | 2.91         | 67.8 | 2.67        | 88.9  | 3.50        | ✓ | ✓                  |        |
| Z16          | ✓          |      |      | ●    | ●    | ●    | ●    | 200.5 | 7.89             | 195.3 | 7.69           | 70.0 | 2.76         | 86.3 | 3.40        | 107.0 | 4.21        | ✓ | ✓                  |        |
| Z16          |            |      |      |      |      | ■    | ■    | 200.5 | 7.89             | 195.3 | 7.69           | 74.0 | 2.91         | 86.3 | 3.40        | 107.0 | 4.21        | ✓ | ✓                  |        |

■ Molded sprocket ● Molded sprocket



Other sprocket sizes are available upon request  
 Other bore sizes are available upon request  
 uni Retainer Rings: See uni Retainer Ring data sheet  
 Width of tooth = 9.0 mm (0.35 in)  
 Width of sprocket = 39.0 mm (1.54 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 Flex ONE.  
 For more detailed sprocket information, contact Customer Service.

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