

### Sprocket availability

| Туре | Number of teeth | Diam. of | pitch Ø d <sub>p</sub> | A    | <b>A</b> <sub>1</sub> | Hub w | ridth B <sub>∟</sub> | Square  | bore Q  | Ø Round | d bore R | Standard<br>material |
|------|-----------------|----------|------------------------|------|-----------------------|-------|----------------------|---------|---------|---------|----------|----------------------|
|      |                 | mm       | inch                   | mm   | inch                  | mm    | inch                 | mm      | inch    | mm      | inch     | -                    |
| S    | 7               | 59.4     | 2.3                    | 25.5 | 1.00                  | 20    | 0.79                 | 25      | 1       |         |          | POM                  |
| S    | 8               | 66.7     | 2.6                    | 29.3 | 1.15                  | 30    | 1.18                 | 25      |         | 30      | 1        | POM                  |
| S    | 10              | 82.5     | 3.3                    | 37.3 | 1.47                  | 30    | 1.18                 | 40      | 1 / 1.5 | 30      | 1        | POM                  |
| S    | 12              | 98.6     | 3.9                    | 45.4 | 1.79                  | 30    | 1.18                 | 40      | 1 / 1.5 | 30 / 40 | 1        | POM                  |
| S    | 15              | 122.7    | 4.8                    | 57.8 | 2.28                  | 30    | 1.18                 | 60      |         |         |          | POM                  |
| S    | 16              | 130.8    | 5.2                    | 61.9 | 2.44                  | 30    | 1.18                 | 40      | 1.5     | 30      |          | POM                  |
| S    | 18              | 146.9    | 5.8                    | 70.1 | 2.76                  | 30    | 1.18                 | 40 / 60 | 1.5     | 30      | 1/11/4   | POM                  |
| S    | 20              | 163.0    | 6.4                    | 78.3 | 3.08                  | 30    | 1.18                 | 40 / 60 | 1.5     | 30      | 1        | POM                  |
| Z    | 12              | 98.6     | 3.9                    | 45.4 | 1.79                  | 40    | 1.57                 | 40      | 1.5     |         |          | POM                  |
| Z    | 18              | 146.9    | 5.8                    | 70.1 | 2.76                  | 47    | 1.85                 | 40 / 60 |         |         |          | POM                  |
| Z    | 20              | 163.0    | 6.4                    | 78.3 | 3.08                  | 40    | 1.57                 | 40      |         |         |          | POM                  |

S, Z: molded sprockets. Other sprocket and hub sizes on request.

**Key ways** for round bore shape follow European standards for metric sizes and US standards for imperial sizes. For detailed dimensions see table in the Engineering Guide chapter Design Guide.

Other materials available on request.

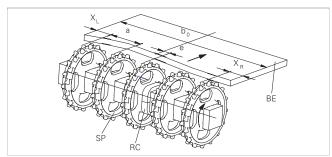


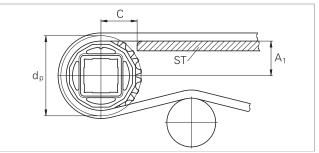






#### Sprocket arrangement





**BE** Belt The distance **C** between the sprocket axis and the slider **RC** Retainer support **ST** is minimal 28 mm (1.1").

# SP Sprocket **b**<sub>0</sub> belt width **Wearstrips**

Between driving shaft and idling sprockets or rollers the belt is carried by a slider support furnished with longitudinal wearstrips (ST) from UHMW Polyethylene or other suitable material.

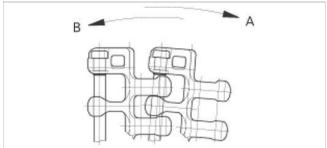


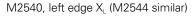
#### **Sprocket positioning**

For correct positioning of the center sprocket divide the belt width by the link increment. The rounded result will be even or an odd number. These numbers are the criteria for offset or no offset, see table:

| Belt type  | Sprocket spacing a    |                       | Sprocket edge<br>distance<br>(minimal) * |                              | Criteria for<br>center<br>sprocket<br>position        | Result of<br>formula<br>(rounded) | Offset<br>e        | Remarks  |  |
|--|-----------------------|-----------------------|--|------------------------------|---|-----------------------------------|--------------------|--|--|
|  | minimal<br>mm<br>inch | maximal<br>mm<br>inch | <b>Χ</b> <sub>L</sub><br>mm<br>inch      | X <sub>R</sub><br>mm<br>inch | mm<br>inch  |                                   | mm<br>inch         | Offset to which side                                     |  |
| Series M2500<br>except M2540/44<br>except M2585/86 | 50<br>2               | 100<br><i>4</i>       | 25<br>1                                  | 25<br>1                      | b <sub>o</sub> / 16.66<br>b <sub>o</sub> / 0.66       | even number (2, 4, 6)             | 8.3<br>0.33        | right or left side                                       |  |
| except ivizooo/oo                                  |                       |                       |  |                              |   | odd number (3, 5, 7)              | 0                  | no offset  |  |
| M2540  | 50<br><i>2</i>        | 117<br><i>4.6</i>     | 21<br><i>0.8</i>                         | 29<br>1.15                   | b <sub>o</sub> / 16.66<br><i>b<sub>o</sub> / 0.66</i> | even number (2, 4, 6)             | 4.2<br>0.17        | right in running direction A left in running direction B |  |
|  |                       |                       |  |                              |   | odd number (3, 5, 7)              | 4.2<br>0.17        | left in running direction A right in running direction B |  |
| M2540<br>with hold down                            | 50<br>2               | 117<br><i>4.6</i>     | 54<br>2.13                               | 62<br>2.44                   | b <sub>o</sub> / 16.66<br>b <sub>o</sub> / 0.66       | even number (2,<br>4, 6)          | 4.2<br>0.17        | right in running direction A left in running direction B |  |
| tabs   |                       |                       |  |                              |   | odd number (3, 5, 7)              | 4.2<br>0.17        | left in running direction A right in running direction B |  |
| M2540 MTW<br>mold to width and<br>bricklayed       | 50<br>2               | 117<br><i>4.6</i>     | 41<br>1.6                                | 49<br>1.93                   | b <sub>o</sub> / 16.66<br>b <sub>o</sub> / 0.66       | even number (2, 4, 6)             | 4.2<br>0.17<br>4.2 | right in running direction A left in running direction B |  |
| bricklayed   |                       |                       |  |                              |   | odd number (3, 5, 7)              | 0.17               | left in running direction A right in running direction B |  |
| M2544  | 50<br>2               | 117<br><i>4.6</i>     | 33<br><i>1.3</i>                         | 42<br>1.65                   | b <sub>o</sub> / 16.66<br><i>b<sub>o</sub> / 0.66</i> | even number (2,<br>4, 6)          | 4.2<br>0.17        | right in running direction A left in running direction B |  |
|  |                       |                       |  |                              |   | odd number (3, 5, 7)              | 4.2<br><i>0.17</i> | left in running direction A right in running direction B |  |
| M2585-P0<br>M2586                                  | 67<br>2.66            | 135<br><i>5.3</i>     | 42<br>1.65                               | 59<br><i>2.32</i>            | b <sub>o</sub> / 33.8<br>b <sub>o</sub> / 1.33        | even number (2, 4, 6)             | 8.3<br>0.33        | right in running direction A left in running direction B |  |
|  |                       |                       |  |                              |   | odd number (3, 5, 7)              | 8.3<br><i>0.33</i> | left in running direction A right in running direction B |  |
| M2585-S0   | 67<br>2.66            | 135<br><i>5.3</i>     | 76<br><i>3</i>                           | 59<br><i>2.32</i>            | b <sub>o</sub> / 33.8<br>b <sub>o</sub> / 1.33        | even number (2, 4, 6)             | 8.3<br><i>0.33</i> | right in running direction A left in running direction B |  |
|  |                       |                       |  |                              |   | odd number (3, 5, 7)              | 8.3<br><i>0.33</i> | left in running direction A right in running direction B |  |

<sup>\*</sup>  $X_L$  and  $X_R$  are related to the running direction A and inverse for running direction B.







M2585-S0, left edge  $X_L$  (M2585-P0, M2586 similar)



#### Number of sprockets and wearstrips for straight running belts

(excluding M2585 / 86: see separate table)

| Standard belt width (nominal) |      | Number of sprockets per shaft | Number of wea     | Number of wearstrips  |  |  |
|-------------------------------|------|-------------------------------|-------------------|-----------------------|--|--|
| mm                            | inch | min. number                   | Carryway<br>(top) | Returnway<br>(bottom) |  |  |
| 150                           | 6    | 2                             | 2                 | 2                     |  |  |
| 200                           | 8    | 2                             | 2                 | 2                     |  |  |
| 250                           | 10   | 3                             | 3                 | 2                     |  |  |
| 300                           | 12   | 3                             | 3                 | 2                     |  |  |
| 350                           | 14   | 3                             | 4                 | 3                     |  |  |
| 400                           | 16   | 3                             | 4                 | 3                     |  |  |
| 450                           | 18   | 5                             | 4                 | 3                     |  |  |
| 500                           | 20   | 5                             | 5                 | 3                     |  |  |
| 550                           | 22   | 5                             | 5                 | 3                     |  |  |
| 600                           | 24   | 5                             | 5                 | 3                     |  |  |
| 700                           | 28   | 7                             | 6                 | 4                     |  |  |
| 800                           | 32   | 7                             | 7                 | 4                     |  |  |
| 900                           | 36   | 9                             | 7                 | 4                     |  |  |
| 1000                          | 40   | 9                             | 8                 | 5                     |  |  |
| 1100                          | 43   | 11                            | 8                 | 5                     |  |  |
| 1200                          | 47   | 11                            | 9                 | 5                     |  |  |
| 1300                          | 51   | 13                            | 10                | 6                     |  |  |
| 1400                          | 55   | 13                            | 10                | 6                     |  |  |
| 1600                          | 63   | 15                            | 11                | 6                     |  |  |
| 1800                          | 71   | 17                            | 12                | 7                     |  |  |
| 2000                          | 79   | 19                            | 13                | 7                     |  |  |

The number of sprockets depends on the belt load and may be different for driving and idling shafts. For calculation of correct sprocket number please use LINK-SeleCalc.



#### Number of sprockets and wearstrips for radius belts M2540, M2544

| Standard belt width (nominal) |      | Number of sprockets per shaft | Number of wearstrips |                       |
|-------------------------------|------|-------------------------------|----------------------|-----------------------|
| mm                            | inch | min. number                   | Carryway<br>(top)    | Returnway<br>(bottom) |
| 150                           | 6    | 2                             | 2                    | 2                     |
| 200                           | 8    | 2                             | 2                    | 2                     |
| 250                           | 10   | 2                             | 3                    | 2                     |
| 300                           | 12   | 3                             | 3                    | 2                     |
| 350                           | 14   | 3                             | 3                    | 3                     |
| 400                           | 16   | 3                             | 3                    | 3                     |
| 450                           | 18   | 3                             | 3                    | 3                     |
| 500                           | 20   | 3                             | 4                    | 3                     |
| 550                           | 22   | 5                             | 4                    | 3                     |
| 600                           | 24   | 5                             | 4                    | 3                     |
| 700                           | 28   | 5                             | 5                    | 4                     |
| 800                           | 32   | 7                             | 5                    | 4                     |
| 900                           | 36   | 7                             | 5                    | 4                     |
| 1000                          | 40   | 9                             | 6                    | 5                     |
| 1100                          | 43   | 9                             | 6                    | 5                     |
| 1200                          | 47   | 9                             | 7                    | 5                     |

The number of sprockets depends on the belt load and may be different for driving and idling shafts. For calculation of correct sprocket number please use LINK-SeleCalc.

#### Number of sprockets and wearstrips for radius belts M2540 and M2544 with hold down tabs

| Standard belt width (nominal) |      | Number of sprockets per shaft | Number of wea     | Number of wearstrips  |  |  |
|-------------------------------|------|-------------------------------|-------------------|-----------------------|--|--|
| mm                            | inch | min. number                   | Carryway<br>(top) | Returnway<br>(bottom) |  |  |
| 150                           | 6    | 1                             | 2                 | 2                     |  |  |
| 200                           | 8    | 2                             | 2                 | 2                     |  |  |
| 250                           | 10   | 2                             | 3                 | 2                     |  |  |
| 300                           | 12   | 2                             | 3                 | 2                     |  |  |
| 350                           | 14   | 3                             | 3                 | 3                     |  |  |
| 400                           | 16   | 3                             | 3                 | 3                     |  |  |
| 450                           | 18   | 3                             | 3                 | 3                     |  |  |
| 500                           | 20   | 3                             | 4                 | 3                     |  |  |
| 550                           | 22   | 3                             | 4                 | 3                     |  |  |
| 600                           | 24   | 5                             | 4                 | 3                     |  |  |
| 700                           | 28   | 5                             | 5                 | 4                     |  |  |
| 800                           | 32   | 5                             | 5                 | 4                     |  |  |
| 900                           | 36   | 7                             | 5                 | 4                     |  |  |
| 1000                          | 40   | 9                             | 6                 | 5                     |  |  |
| 1100                          | 43   | 9                             | 6                 | 5                     |  |  |
| 1200                          | 47   | 9                             | 7                 | 5                     |  |  |

The number of sprockets depends on the belt load and may be different for driving and idling shafts. For calculation of correct sprocket number please use LINK-SeleCalc.



#### Number of sprockets and wearstrips for radius belts M2540 Radius Flush Grid 1" MTW (mold to width and bricklayed)

| Standard belt width (nominal) |       | Number of sprockets per shaft | Number of wearstrips |                       |  |
|-------------------------------|-------|-------------------------------|----------------------|-----------------------|--|
| mm                            | inch  | min. number                   | Carryway<br>(top)    | Returnway<br>(bottom) |  |
| 206                           | 8.11  | 2                             | 2                    | 2                     |  |
| 256                           | 10.08 | 2                             | 3                    | 2                     |  |
| 306*                          | 12.05 | 3                             | 3                    | 2                     |  |
| 406                           | 16    | 3                             | 3                    | 3                     |  |
| 506                           | 19.9  | 5                             | 4                    | 3                     |  |
| 606                           | 23.85 | 5                             | 4                    | 3                     |  |

<sup>\*</sup> The belt width 306 mm (12.05") is a non-cut standard mold to width belt. All other belt widths are cut sizes.

#### Number of sprockets and wearstrips for M2585, M2586

| Standard belt width (nominal) |      | Number of sprockets per shaft | Number of wea     | Number of wearstrips  |  |  |
|-------------------------------|------|-------------------------------|-------------------|-----------------------|--|--|
| mm                            | inch | min. number                   | Carryway<br>(top) | Returnway<br>(bottom) |  |  |
| 305                           | 12   | 2                             | 2                 | 2                     |  |  |
| 508                           | 20   | 3                             | 3                 | 2                     |  |  |
| 711                           | 28   | 5                             | 4                 | 2                     |  |  |
| 914                           | 36   | 7                             | 6                 | 3                     |  |  |
| 1117                          | 44   | 7                             | 8                 | 3                     |  |  |
| 1319                          | 52   | 9                             | 10                | 4                     |  |  |
| 1522                          | 60   | 11                            | 10                | 4                     |  |  |
| 1725                          | 68   | 13                            | 12                | 7                     |  |  |
| 1928                          | 76   | 13                            | 12                | 7                     |  |  |
| 2131                          | 84   | 15                            | 13                | 8                     |  |  |
| 2333                          | 92   | 17                            | 16                | 8                     |  |  |
| 2536                          | 100  | 19                            | 18                | 9                     |  |  |

The number of sprockets depends on the belt load and may be different for driving and idling shafts. For calculation of correct sprocket number please use LINK-SeleCalc.

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