

HabasitLINK® Sprocket series M1100



| | | | | | | |
|---|----|---|----|----|---|---|
| M | 11 | S | 17 | 25 | Q | 8 |
|---|----|---|----|----|---|---|

M = Modular belts
 Belt pitch
 S = sprocket one-piece; Z = split sprocket
 Number of teeth
 Shaft size
 Shaft type: Q = square shaft; R = round shaft
 Material: 8 = PA; 6 = POM

Sprocket availability

| Type | Number of teeth | Diam. of pitch $\varnothing d_p$ | | A_1 | | Hub width B_L | | Square bore Q | | \varnothing Round bore R | | Standard material |
|------|-----------------|----------------------------------|------|-------|------|-----------------|------|---------------|------|----------------------------|---------|-------------------|
| | | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | |
| S-C1 | 12 | 49.8 | 2.0 | 22.2 | 0.87 | 25 | 0.98 | | 1 | 25 | 1 | PA |
| S-C1 | 14 | 58.0 | 2.3 | 26.4 | 1.04 | 25 | 0.98 | | 1 | 25 | 3/4 / 1 | PA |
| S-C1 | 17 | 70.2 | 2.8 | 32.6 | 1.28 | 25 | 0.98 | | | 25 | 3/4 / 1 | PA |
| S-C1 | 19 | 78.4 | 3.1 | 36.8 | 1.45 | 25 | 0.98 | | | | 1 | PA |
| S-C1 | 24 | 98.8 | 3.9 | 47.2 | 1.86 | 25 | 0.98 | 40 | 1.5 | 25 | 1 | PA |
| S-C1 | 36 | 148.0 | 5.8 | 72.3 | 2.85 | 25 | 0.98 | 40 / 60 | 1.5 | | 1 | PA |

S-C1: machined sprockets. Other sprocket and hub sizes on request.

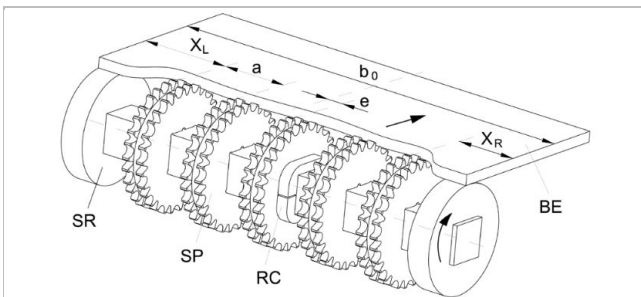
Key ways for round bore shape follow European standards for metric sizes and US standards for imperial sizes. For detailed dimensions see table in the Engineering Guide chapter Design Guide.

Other materials available on request.

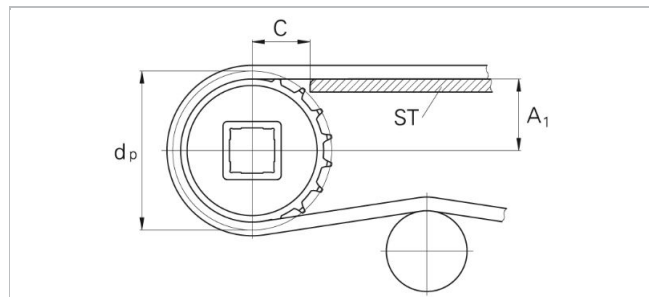


Sprocket one-piece (solid)

Sprocket arrangement



- BE** Belt
- RC** Retainer
- SP** Sprocket
- b₀** belt width



The distance **C** between the sprocket axis and the slider support **ST** is minimal 14 mm (0.55").

Wearstrips

Between driving shaft and idling sprockets or rollers the belt is carried by a slider support furnished with longitudinal wear strips (SL) 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 an even or an odd number. These numbers are the criteria for offset or no offset, see table.

| Belt type | Sprocket spacing a | | Sprocket edge distance (minimal) | | Criteria for center sprocket position | Result of formula (rounded) | Offset e | Remarks |
|-----------|--------------------|-------------------|----------------------------------|-------------------|---------------------------------------|-----------------------------|-------------------|--|
| | minimal | maximal | X_L | X_R | | | | |
| | mm <i>inch</i> | mm <i>inch</i> | mm <i>inch</i> | mm <i>inch</i> | mm <i>inch</i> | | mm <i>inch</i> | Offset to which side |
| M1185 | 50,8 2 | 101.6 4 | 63,5 2,5 | 63,5 2,5 | n.a. | n.a. | 12,7 0,5 | right or left side for all belt widths |

In addition to the sprockets it is recommended to use support rollers at the belt edges on drive and idling side.

Distance of the center of the support roller to the belt edge: X_L and X_R

M1200 sprocket series are applicable with M1185 only in running direction (A).

See page 27, sprocket series M1200.

Numbers of sprockets and wearstrips for M1185

| Standard belt width (nominal) | | Number of sprockets per shaft | Number of wearstrips | |
|-------------------------------|-------------|-------------------------------|----------------------|--------------------|
| mm | <i>inch</i> | min. number | Carryway (top) | Returnway (bottom) |
| 203 | 8 | 2 | 3 | 2 |
| 254 | 10 | 2 | 3 | 2 |
| 305 | 12 | 2 | 3 | 2 |
| 356 | 14 | 3 | 4 | 3 |
| 406 | 16 | 3 | 4 | 3 |
| 457 | 18 | 3 | 4 | 3 |
| 508 | 20 | 5 | 5 | 3 |
| 559 | 22 | 5 | 5 | 3 |
| 610 | 24 | 5 | 5 | 3 |
| 660 | 26 | 5 | 6 | 4 |
| 711 | 28 | 7 | 6 | 4 |
| 762 | 30 | 7 | 6 | 4 |
| 813 | 32 | 7 | 7 | 4 |
| 864 | 34 | 9 | 7 | 4 |
| 914 | 36 | 9 | 7 | 4 |
| 965 | 38 | 9 | 8 | 5 |
| 1'016 | 40 | 9 | 8 | 5 |
| 1'067 | 42 | 11 | 8 | 5 |
| 1'118 | 44 | 11 | 9 | 5 |
| 1'168 | 46 | 11 | 9 | 5 |
| 1'219 | 48 | 11 | 9 | 5 |
| 1'270 | 50 | 13 | 10 | 6 |
| 1'321 | 52 | 13 | 10 | 6 |
| 1'372 | 54 | 13 | 10 | 6 |
| 1'422 | 56 | 15 | 11 | 6 |
| 1'473 | 58 | 15 | 11 | 6 |
| 1'524 | 60 | 15 | 11 | 6 |
| 1'575 | 62 | 15 | 12 | 7 |
| 1'626 | 64 | 17 | 12 | 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.

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