

M	52	S	10	40	Q	6
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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: 6 = POM; 8 = PA

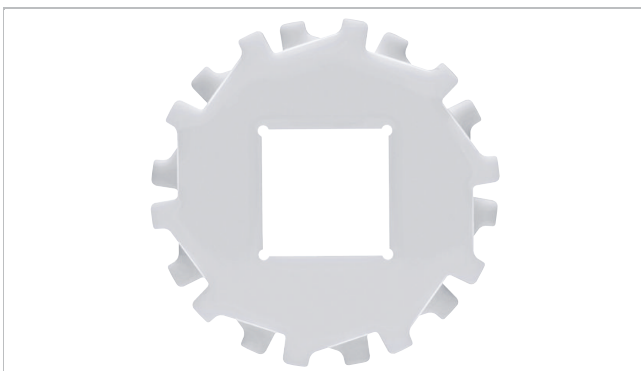
## Sprocket availability

Type	Number of teeth	Diam. of pitch $\varnothing d_p$		$A_1$		Hub width $B_L$		Square bore Q		Standard material
		mm	inch	mm	inch	mm	inch	mm	inch	
S-C1	10	165.1	6.5	77.0	3.03	23	0.89	40 / 60	1.5 / 2.5	POM
S-C1	12	197.2	7.8	93.3	3.67	23	0.89	40 / 60	1.5 / 2.5	POM

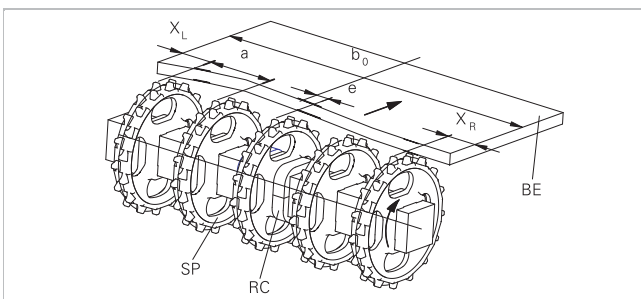
S-C1: machined sprockets. Other sprocket and hub sizes on request.

**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.

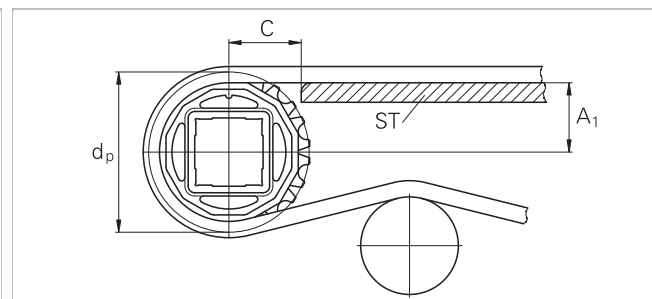
**Other materials** available on request.



## Sprocket arrangement



**BE** Belt  
**RC** Retainer  
**SP** Sprocket  
 $b_p$  belt width  
**Wearstrips**



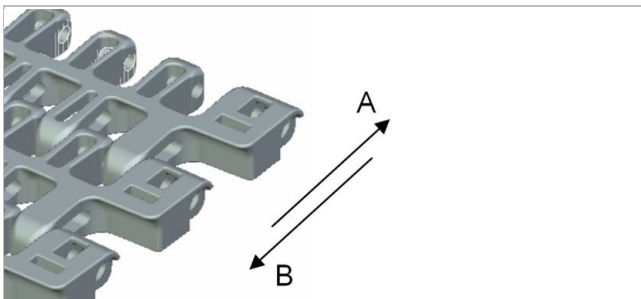
The distance **C** between the sprocket axis and the slider support **ST** is minimal 53 mm (2.1").

Between driving shaft and idling sprockets or rollers the belt is carried by a slider support furnished with longitudinal wear strips 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 mm inch	maximal mm inch	X <sub>L</sub> mm inch	X <sub>R</sub> mm inch				
M5290	50.8	152.4	53.5	39.4	b <sub>0</sub> / 25.4	even number (2, 4, 6 ...)	6.35	right in running direction A
M5293	2	6	2.11	1.55	b <sub>0</sub> / 1		0.25	left in running direction B
						odd number (3, 5, 7 ...)	6.35	left in running direction A
							0.25	right in running direction B



### Numbers of sprockets and wearstrips for M5290 and M5293

Standard belt width (nominal)		Number of sprockets per shaft	Number of wearstrips	
<i>inch</i>	mm	min. number	Carryway (top)	Returnway (bottom)
20	508	3	2	2
22	559	3	2	2
24	610	3	2	2
26	660	3	2	2
28	711	5	2	3
30	762	5	3	2
32	813	5	3	2
34	864	5	3	2
36	914	5	3	2
38	965	5	3	2
40	1016	5	3	2
42	1067	5	3	2
44	1118	7	3	2
46	1168	7	3	2
48	1219	7	3	2
50	1270	7	3	2
52	1321	7	3	2
54	1372	7	3	2
56	1422	7	4	3
58	1473	7	4	3
60	1524	9	4	3
62	1575	9	4	3

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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