

M	38	S	12	40	Q	6
---	----	---	----	----	---	---

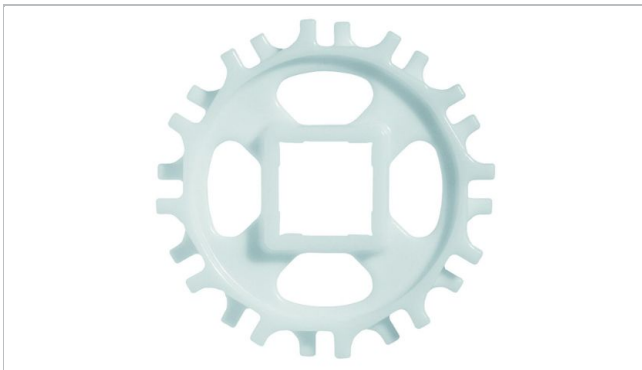
M = Modular belts  
 Belt pitch  
 S = sprocket one-piece; Z = split sprocket  
 Number of teeth  
 Shaft size  
 Shaft type: Q = square shaft; R = round shaft  
 Material: 6 = POM; 8 = PA

### 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	8	100.6	4.0	43.1	1.70	30	1.18	40	-	POM
S	12	148.8	5.9	67.7	2.67	30	1.18	40	1.5 / 2.5	POM
S	16	197.3	7.8	92.4	3.64	30	1.18	40	-	POM

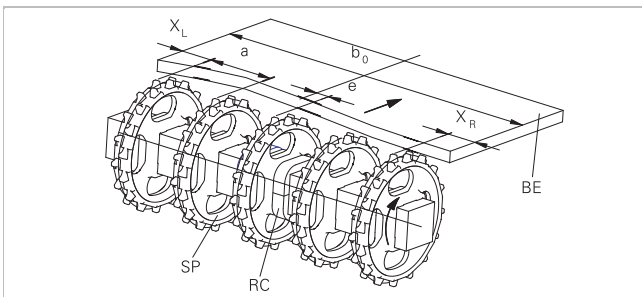
S: molded sprockets. Other sprocket and hub sizes on request.

**Other materials** available on request.



Sprocket one-piece ("open window")

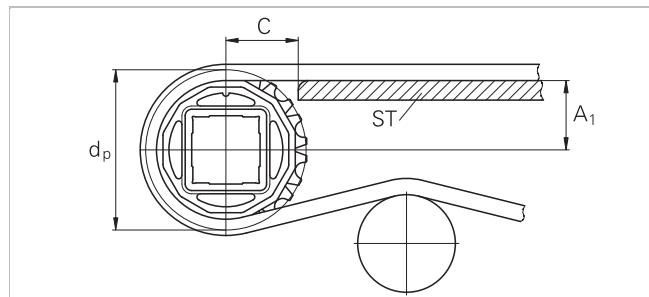
### Sprocket arrangement



- BE** Belt
- RC** Retainer
- SP** Sprocket
- $b_0$  belt width

### Wearstrips

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.



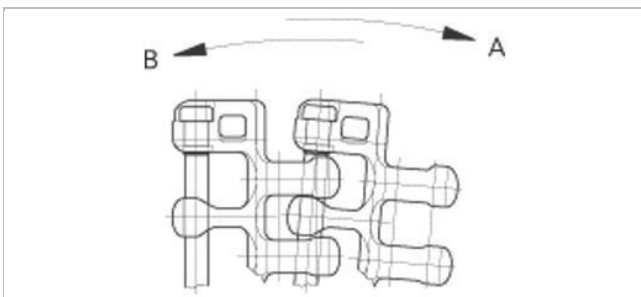
The distance **C** between the sprocket axis and the slider support **ST** is minimal 41 mm (1.6").

### 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				
M3840 M3843	50 2	125 5	44 1.73	31 1.22	$b_o / 25$ $b_o / 0.98$	even number (2, 4, 6 ...) odd number (3, 5, 7 ...)	6.3 0.25 6.3 0.25	left in running direction A right in running direction B right in running direction A left in running direction B
M3840 M3843 with hold down tabs	50 2	125 5	68 2.68	55 2.17	$b_o / 25$ $b_o / 0.98$	even number (2, 4, 6 ...) odd number (3, 5, 7 ...)	6.3 2.25 6.3 0.25	left in running direction A right in running direction B right in running direction A left in running direction B
M3892	50.8 2	127 5	42.5 1.67	57 2.24	$b_o / 25.4$ $b_o / 1$	even number (2, 4, 6 ...) odd number (3, 5, 7 ...)	6.2 0.24 6.2 0.24	left in running direction A right in running direction B right in running direction A left in running direction B

\* X<sub>L</sub> and X<sub>R</sub> are related to the running direction A and inverse for running direction B.



Left edge X<sub>L</sub>

**Numbers of sprockets and wearstrips for M3840, M3843 and M3892 without hold down tabs**

Standard belt width (nominal)		Number of sprockets per shaft	Number of wearstrips	
mm	<i>inch</i>	min. number	Carryway (top)	Returnway (bottom)
200	8	2	2	2
250	10	2	2	2
300	12	2	2	2
350	14	3	2	2
400	16	3	3	3
450	18	3	3	3
500	20	3	3	3
550	22	3	3	3
600	24	5	4	3
650	26	5	4	3
700	28	5	4	3
750	30	5	4	3
800	32	5	5	4
850	34	7	5	4
900	36	7	5	4
950	38	7	5	4
1'000	40	7	6	5
1'050	42	7	6	5
1'100	44	9	6	5
1'150	46	9	6	5
1'200	48	9	7	6
1'250	50	9	7	6

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.

### Numbers of sprockets and wearstrips for M3840, M3843 with hold down tabs

Standard belt width (nominal)		Number of sprockets per shaft	Number of wearstrips	
mm	<i>inch</i>	min. number	Carryway (top)	Returnway (bottom)
200	8	2	2	2
250	10	2	2	2
300	12	2	2	2
350	14	3	2	2
400	16	3	3	3
450	18	3	3	3
500	20	3	3	3
550	22	3	3	3
600	24	5	4	3
650	26	5	4	3
700	28	5	4	3
750	30	5	4	3
800	32	5	5	4
850	34	7	5	4
900	36	7	5	4
950	38	7	5	4
1'000	40	7	6	5
1'050	42	7	6	5
1'100	44	9	6	5
1'150	46	9	6	5
1'200	48	9	7	6
1'250	50	9	7	6

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.

#### Disclaimer

##### Product Application Disclaimer (valid for ALL Habasit products and mentioned on all PDS)

This disclaimer is made by and on behalf of Habasit and its affiliated companies, directors, employees, agents and contractors (hereinafter collectively "HABASIT") with respect to the products referred to herein (the "Products"). SAFETY WARNINGS SHOULD BE READ CAREFULLY AND ANY RECOMMENDED SAFETY PRECAUTIONS BE FOLLOWED STRICTLY! Please refer to the Safety Warnings herein, in the Habasit catalogue as well as installation and operating manuals. All indications / information as to the application, use and performance of the Products are recommendations provided with due diligence and care, but no representations or warranties of any kind are made as to their completeness, accuracy or suitability for a particular purpose. The data provided herein are based on laboratory application with small-scale test equipment, running at standard conditions, and do not necessarily match product performance in industrial use. New knowledge and experience may lead to re-assessments and modifications within a short period of time and without prior notice.

EXCEPT AS EXPLICITLY WARRANTED BY HABASIT, WHICH WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, THE PRODUCTS ARE PROVIDED "AS IS". HABASIT DISCLAIMS ALL OTHER WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT, OR ARISING FROM A COURSE OF DEALING, USAGE, OR TRADE PRACTICE, ALL OF WHICH ARE HEREBY EXCLUDED TO THE EXTENT ALLOWED BY APPLICABLE LAW. BECAUSE CONDITIONS OF USE IN INDUSTRIAL APPLICATION ARE OUTSIDE OF HABASIT'S CONTROL, HABASIT DOES NOT ASSUME ANY LIABILITY CONCERNING THE SUITABILITY AND PROCESS ABILITY OF THE PRODUCTS, INCLUDING INDICATIONS ON PROCESS RESULTS AND OUTPUT.