

# HabasitLINK® Sprocket series M5000 HyCLEAN



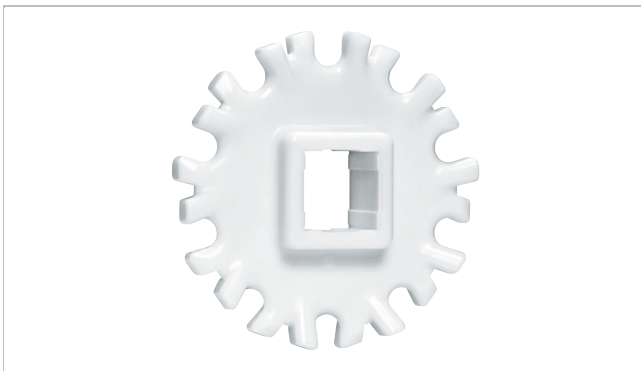
M = Modular belts  
 Belt pitch  
 S = sprocket one-piece; Z = split sprocket  
 Number of teeth  
 Shaft size  
 Shaft type: Q = square shaft; R = round shaft  
 Material: 6 = POM; 8 = PA

**M 50 S 10 40 Q 6**

## Sprocket availability

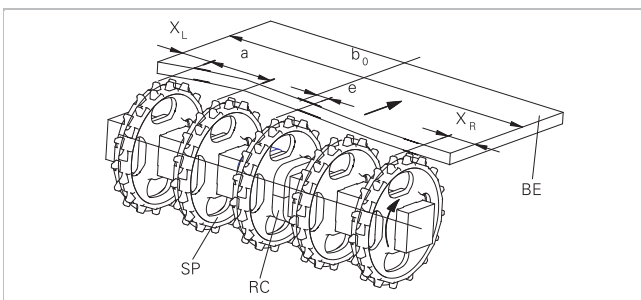
Type	Number of teeth	Diam. of pitch $\varnothing d_p$		$A_1$		Hub width $B_L$		Square bore Q		Standard material
		mm	inch	mm	inch	mm	inch	mm	inch	
S-M2	8	133.4	5.3	62.2	2.46	40	1.57	40		POM
S-M2	10	165.2	6.5	78.6	3.09	40	1.57	40	1.5	POM

S-M2: molded sprocket



HyCLEAN sprocket

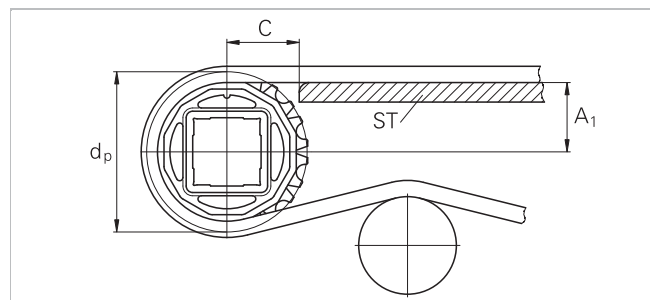
## Sprocket arrangement



**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.



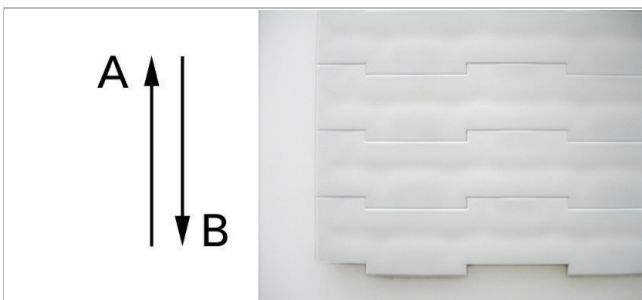
The distance **C** between the sprocket axis and the slider support **ST** is minimal 53 mm (2.1").

### 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				
M5010 M5011 M5013 M5014	56.25 2.2	150 6	37.5 1.48	37.5 1.48	$b_0 / 18.75$ $b_0 / 0.74$	even number (2, 4, 6 ...) odd number (3, 5, 7 ...)	0 0 9.4 0.37	no offset right or left
M5060 M5067 M5085	50.8 2	152.4 6	25.4 1	25.4 1	$b_0 / 25.4$ $b_0 / 1$	even number (2, 4, 6 ...) odd number (3, 5, 7 ...)	0 0 12.7 0.5	no offset right or left
M5064	50.8 2	152.4 6	50.8 2	50.8 2	$b_0 / 25.4$ $b_0 / 1$	even number (2, 4, 6 ...) odd number (3, 5, 7 ...)	0 0 12.7 0.5	no offset right or left
M5065 * (in direction A)	152.4 6	228.6 9	114.3 4.5	38.1 1.5	$b_0 / 76.2$ $b_0 / 3$	even number (2, 6, 10 ...)	38.1 1.5	right
						even number (4, 8, 12 ...)	38.1 1.5	left
						odd number (3, 7, 11 ...)	0 0	no offset
						odd number (5, 9, 13 ...)	76.2 3	right or left
M5065 * (in direction B)	152.4 6	228.6 9	38.1 1.5	114.3 4.5	$b_0 / 76.2$ $b_0 / 3$	even number (2, 6, 10 ...)	38.1 1.5	left
						even number (4, 8, 12 ...)	38.1 1.5	right
						odd number (3, 7, 11 ...)	76.2 3	right or left
						odd number (5, 9, 13 ...)	0 0	no offset

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



**Numbers of sprockets and wearstrips for M5010, M5011, M5013, M5014**

Standard belt width (nominal)		Number of sprockets per shaft	Number of wearstrips	
mm	<i>inch</i>	min. number	Carryway (top)	Returnway (bottom)
150	6	2	2	2
225	9	2	2	2
300	12	2	3	2
375	15	3	3	3
450	18	3	3	3
525	21	3	4	3
600	24	3	4	3
675	27	5	5	3
750	30	5	5	4
825	33	5	6	4
900	36	5	6	4
975	39	7	7	5
1'050	42	7	7	5
1'125	45	7	7	5
1'200	48	7	8	5
1'500	59	9	8	6
1'800	70	11	9	6
2'100	83	13	10	7
2'400	95	15	11	8
2'700	106	17	12	9
3'000	118	19	13	10

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 M5060, M5064, M5067, M5085**

Standard belt width (nominal)		Number of sprockets per shaft	Number of wearstrips	
mm	<i>inch</i>	min. number	Carryway (top)	Returnway (bottom)
102	4	2	2	2
203	8	2	2	2
305	12	2	3	2
406	16	3	3	3
508	20	3	3	3
610	24	3	4	3
711	28	5	4	3
813	32	5	5	3
914	36	5	5	4
1'016	40	7	6	4
1'118	44	7	6	4
1'219	48	7	7	5
1'422	56	9	7	5
1'626	64	11	7	5
1'829	72	11	8	5
2'032	80	13	8	6
2'235	88	15	9	6
2'438	96	15	10	7
2'642	104	17	11	8
2'845	112	19	12	9
3'048	120	19	13	10

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 M5065

Standard belt width (nominal)		Number of sprockets per shaft	Number of wearstrips	
mm	<i>inch</i>	min. number	Carryway (top)	Returnway (bottom)
152	6	1*	2	2
229	9	2	2	2
305	12	2	3	2
381	15	2	3	3
457	18	2	3	3
533	21	2	3	3
610	24	3	4	3
686	27	3	4	3
762	30	3	4	4
838	33	3	4	4
914	36	3	4	4
991	39	3	4	4
1067	42	5	4	4
1143	45	5	4	4
1219	48	5	5	4
1295	51	5	5	4
1372	54	5	5	4
1448	57	5	5	5
1524	60	5	5	5

\* Second sprocket on open hinge is possible (no tracking).

General remark: HyCLEAN sprockets are not compatible to M5015, M5020 and M5030 series.

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