HabasitLINK® Sprockets - 2" Pitch Belting Sprocket Series M5000

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

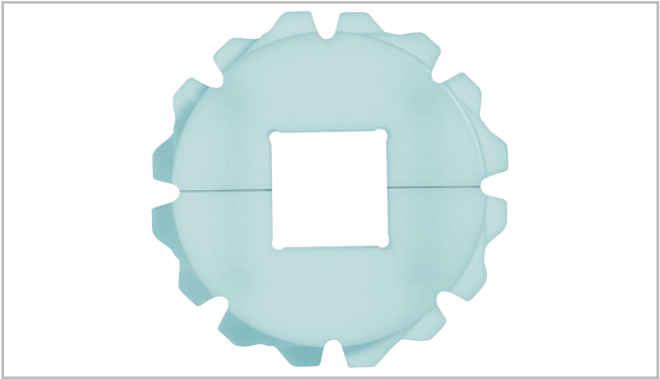| Type	Number of teeth	Diam. of pitch Ø d_p		A_1		Hub width B_L		Square bore Q		Ø Round bore R		Standard material
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
S	6	102.1	4.0	43.0	1.70	40	1.57	40	1.5	-	-	POM
S	8	133.4	5.3	58.7	2.31	40	1.57	40 / 60	1.5	-	-	POM
S	10	165.2	6.5	74.6	2.94	40	1.57	40 / 60	1.5 / 2.5	-	-	POM
S	12	197.2	7.8	90.6	3.57	40	1.57	40 / 60	1.5 / 2.5 / 3.5	-	-	POM
S	16	261.5	10.3	122.7	4.83	40	1.57	40 / 60 / 90	1.5 / 2.5 / 3.5	-	-	POM
Z-B	12	197.2	7.8	90.6	3.57	40	1.57	40 / 60 / 90	1.5 / 2.5 / 3.5	40 / 50 / 60	1.5 / 2 / 2.5	PA
Z-B	16	261.5	10.3	122.7	4.83	40	1.57	40 / 60 / 90 / 120	1.5 / 2.5 / 3.5 / 4.75	40 / 50 / 60	1.5 / 2 / 2.5	PA

S: molded sprockets; Z-B: molded sprockets with machined bore (hollow hub). 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 Design Guide.

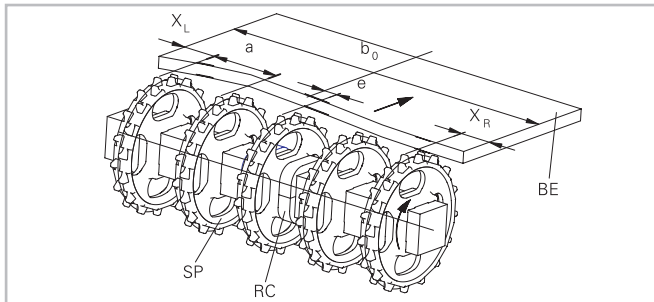**Other materials** available on request.
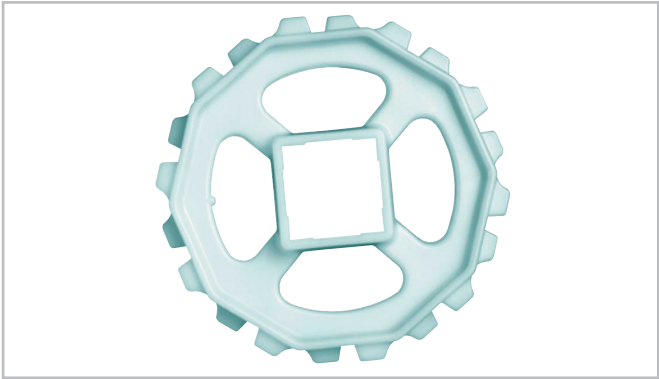
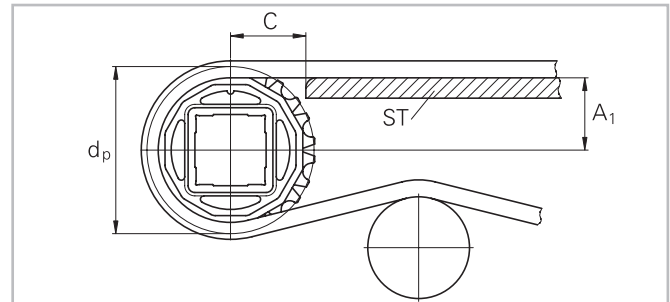
Sprocket one-piece

Split sprocket

Sprocket arrangement

BE Belt
RC Retainer
SP Sprocket
b_0 belt width

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

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.

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_L mm *inch*	X_R mm *inch*	mm *inch*		mm *inch*	Offset to which side
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 ...)	0 *0*	no offset
						odd number (3, 5, 7 ...)	9.4 *0.37*	right or left side
M5015 M502x M503x	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 ...)	0 *0*	no offset
						odd number (3, 5, 7 ...)	9.4 *0.37*	right or left side
M5060 M5067	50.8 *2*	152.4 *6*	25.4 *1*	25.4 *1*	$b_0 / 25.4$ $b_0 / 1$	even number (2, 4, 6 ...)	0 *0*	no offset
						odd number (3, 5, 7 ...)	12.7 *0.5*	right or left side
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 ...)	0 *0*	no offset
						odd number (3, 5, 7 ...)	12.7 *0.5*	right or left side

Numbers of sprockets and wearstrips for M501x, M502x, M503x

Standard belt width (nominal)		Number of sprockets per shaft	Number of wearstrips	
mm	*inch*	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

Standard belt width (nominal)		Number of sprockets per shaft	Number of wearstrips	
mm	*inch*	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.

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