

# HabasitLINK® Sprockets - 1" Pitch Belting

## Sprocket Series M2500



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	25	S	12	40	Q	6

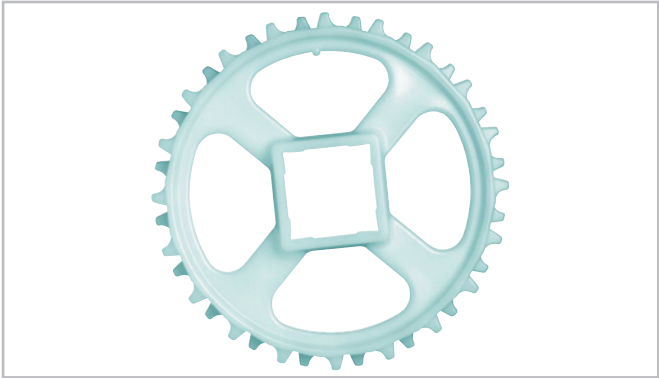
### Sprocket availability

Type	Number of teeth	Diam. of pitch Ø d <sub>p</sub>		A <sub>1</sub>		Hub width B <sub>L</sub>		Square bore Q		Ø Round bore R		Standard material
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
S	7	59.4	2.3	24.7	0.97	20	0.79	25	1	-	-	POM
S	8	66.7	2.6	28.3	1.12	30	1.18	25	-	30	1 / 1 3/16	POM
S	10	82.5	3.3	36.3	1.43	30	1.18	40	1 / 1.5	30	1 / 1 3/16	POM
S	12	98.6	3.9	44.3	1.74	30	1.18	40	1 / 1.5	30 / 40	1 / 1 3/16	POM
S	15	122.7	4.8	56.4	2.22	30	1.18	60	-	-	-	POM
S	16	130.8	5.2	60.4	2.38	30	1.18	40	1.5	-	-	POM
S	18	146.9	5.8	68.4	2.69	30	1.18	40 / 60	1.5 / 2.5	30	1 / 1 3/16	POM
S	20	163.0	6.4	76.5	3.01	30	1.18	40 / 60	1.5 / 2.5	30	1 / 1 3/16	POM
Z	12	98.6	3.9	44.3	1.74	40	1.57	40	1.5	-	-	POM
Z	18	146.9	5.8	68.4	2.69	47	1.85	40 / 60	1.5 / 2.5	-	-	POM
Z	20	163.0	6.4	76.5	3.01	40	1.57	40	1.5	-	-	POM

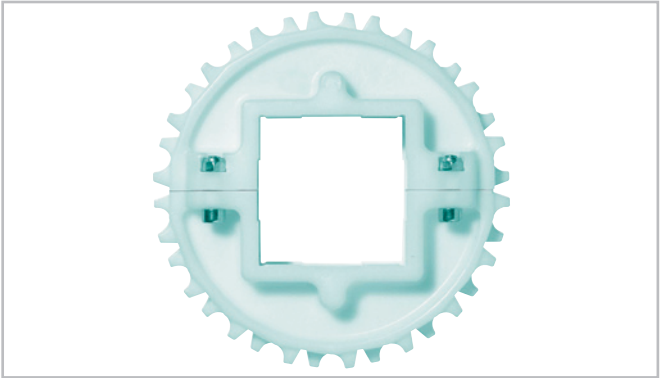
S, Z: molded sprockets. Other sprocket and hub sizes on request.

**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 Design Guide.

**Other materials** available on request.



Sprocket one-piece ("open window")



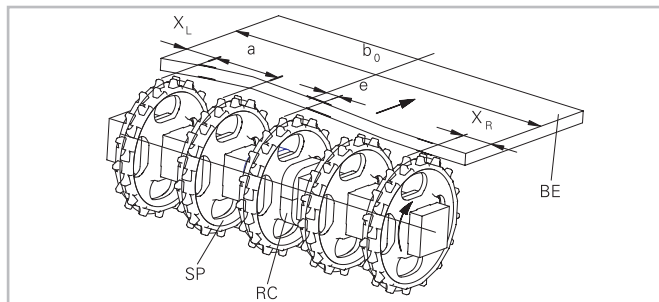
Split sprocket

# HabasitLINK® Sprockets - 1" Pitch Belting

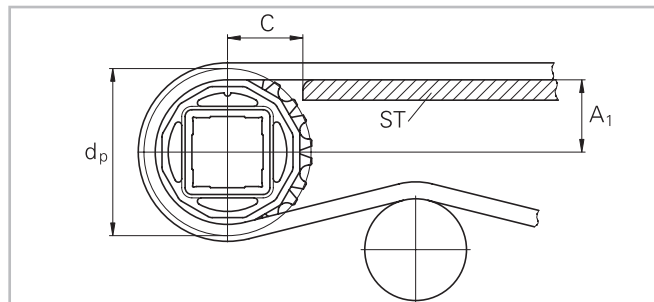
## Sprocket Series M2500



### Sprocket arrangement



**BE** Belt  
**RC** Retainer  
**SP** Sprocket  
**b<sub>0</sub>** belt width



The distance **C** between the sprocket axis and the slider support **ST** is minimal 28 mm (1.1").

### Wearstrips

Between driving shaft and idling sprockets or rollers the belt is carried by a slider support furnished with longitudinal wearstrips (ST) from UHMW Polyethylene or other suitable material.

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## Sprocket Series M2500

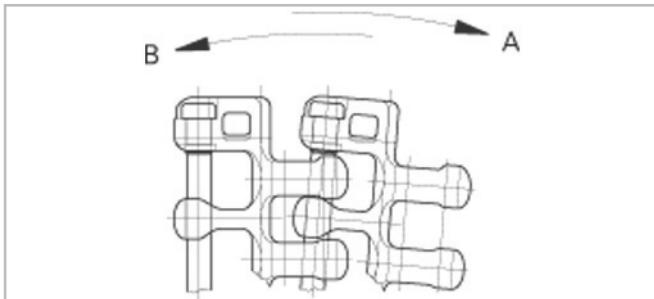


### Sprocket positioning

For correct positioning of the center sprocket divide the belt width by the link increment. The rounded result will be 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 inch	mm inch	mm inch	mm inch			mm inch	
Series M2500 except M2540/43 except M2585/86	50 2	100 4	25 1	25 1	$b_0 / 16.66$ $b_0 / 0.66$	even number (2, 4, 6 ...)	8.3 0.33	right or left side
						odd number (3, 5, 7 ...)	0 0	no offset
M2540	50 2	117 4.6	21 0.8	29 1.15	$b_0 / 16.66$ $b_0 / 0.66$	even number (2, 4, 6 ...)	4.2 0.17	right in running direction A left in running direction B
						odd number (3, 5, 7 ...)	4.2 0.17	left in running direction A right in running direction B
M2540 with hold down tabs	50 2	117 4.6	54 2.13	62 2.44	$b_0 / 16.66$ $b_0 / 0.66$	even number (2, 4, 6 ...)	4.2 0.17	right in running direction A left in running direction B
						odd number (3, 5, 7 ...)	4.2 0.17	left in running direction A right in running direction B
M2540 MTW mold to width and bricklaid	50 2	117 4.6	41 1.6	49 1.93	$b_0 / 16.66$ $b_0 / 0.66$	even number (2, 4, 6 ...)	4.2 0.17	right in running direction A left in running direction B
						odd number (3, 5, 7 ...)	4.2 0.17	left in running direction A right in running direction B
M2544	50 2	117 4.6	33 1.3	42 1.65	$b_0 / 16.66$ $b_0 / 0.66$	even number (2, 4, 6 ...)	4.2 0.17	right in running direction A left in running direction B
						odd number (3, 5, 7 ...)	4.2 0.17	left in running direction A right in running direction B
M2585-P0 M2586	67 2.66	135 5.3	42 1.65	59 2.32	$b_0 / 33.8$ $b_0 / 1.33$	even number (2, 4, 6 ...)	8.3 0.33	right in running direction A left in running direction B
						odd number (3, 5, 7 ...)	8.3 0.33	left in running direction A right in running direction B
M2585-S0	67 2.66	135 5.3	76 3	59 2.32	$b_0 / 33.8$ $b_0 / 1.33$	even number (2, 4, 6 ...)	8.3 0.33	right in running direction A left in running direction B
						odd number (3, 5, 7 ...)	8.3 0.33	left in running direction A right in running direction B

\*  $X_L$  and  $X_R$  are related to the running direction A and inverse for running direction B.



M2540, left edge  $X_L$  (M2543 similar)



M2585-S0, left edge  $X_L$  (M2585-P0, M2586 similar)

# HabasitLINK® Sprockets - 1" Pitch Belting

## Sprocket Series M2500



### Number of sprockets and wearstrips for straight running belts

(excluding M2585 / 86: see separate table)

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
200	8	2	2	2
250	10	3	3	2
300	12	3	3	2
350	14	3	4	3
400	16	3	4	3
450	18	5	4	3
500	20	5	5	3
550	22	5	5	3
600	24	5	5	3
700	28	7	6	4
800	32	7	7	4
900	36	9	7	4
1000	40	9	8	5
1100	43	11	8	5
1200	47	11	9	5
1300	51	13	10	6
1400	55	13	10	6
1600	63	15	11	6
1800	71	17	12	7
2000	79	19	13	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.

# HabasitLINK® Sprockets - 1" Pitch Belting

## Sprocket Series M2500



### Number of sprockets and wearstrips for radius belts N2540, M2543

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
200	8	2	2	2
250	10	2	3	2
300	12	3	3	2
350	14	3	3	3
400	16	3	3	3
450	18	3	3	3
500	20	3	4	3
550	22	5	4	3
600	24	5	4	3
700	28	5	5	4
800	32	7	5	4
900	36	7	5	4
1000	40	9	6	5
1100	43	9	6	5
1200	47	9	7	5

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.

### Number of sprockets and wearstrips for radius belts M2540 and M2543 with hold down tabs

Standard belt width (nominal)		Number of sprockets per shaft	Number of wearstrips	
mm	inch	min. number	Carryway (top)	Returnway (bottom)
150	6	1	2	2
200	8	2	2	2
250	10	2	3	2
300	12	2	3	2
350	14	3	3	3
400	16	3	3	3
450	18	3	3	3
500	20	3	4	3
550	22	3	4	3
600	24	5	4	3
700	28	5	5	4
800	32	5	5	4
900	36	7	5	4
1000	40	9	6	5
1100	43	9	6	5
1200	47	9	7	5

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.

# HabasitLINK® Sprockets - 1" Pitch Belting

## Sprocket Series M2500



### Number of sprockets and wearstrips for radius belts M2540 Radius Flush Grid 1" MTW (mold to width and bricklaid)

Standard belt width (nominal)		Number of sprockets per shaft	Number of wearstrips	
mm	inch	min. number	Carryway (top)	Returnway (bottom)
206	8.11	2	2	2
256	10.08	2	3	2
306*	12.05	3	3	2
406	16	3	3	3
506	19.9	5	4	3
606	23.85	5	4	3

\* The belt width 306 mm (12.05") is a non-cut standard mold to width belt. All other belt widths are cut sizes.

### Number of sprockets and wearstrips for M2585, M2586

Standard belt width (nominal)		Number of sprockets per shaft	Number of wearstrips	
mm	inch	min. number	Carryway (top)	Returnway (bottom)
305	12	2	2	2
508	20	3	3	2
711	28	5	4	2
914	36	7	6	3
1117	44	7	8	3
1319	52	9	10	4
1522	60	11	10	4
1725	68	13	12	7
1928	76	13	12	7
2131	84	15	13	8
2333	92	17	16	8
2536	100	19	18	9

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.

#### Product liability, application considerations

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