

# HabasitLINK®

## Sprocket series M2400



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 24 S 12 40 Q 8**

### Sprocket availability

Type	Number of teeth	Diam. of pitch $\varnothing d_p$		$A_1$		Hub width $B_L$		Square bore Q		$\varnothing$ Round bore R		Standard material
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
S	12	99.5	3.9	45.1	1.78	25	0.98	40	-	-	1	PA
S	15	123.9	4.9	57.2	2.25	25	0.98	60	-	-	-	PA
S	18	148.3	5.8	69.4	2.73	25	0.98	40 / 60	2.5	-	-	PA
S-C1	12	99.5	3.9	45.1	1.78	25	0.98	-	-	40	1.5	PA
S-C1	18	148.3	5.8	69.4	2.73	25	0.98	-	-	30 / 40 / 50	1 / 1.5	PA
S-C1	20	164.6	6.5	77.5	3.05	25	0.98	-	-	40 / 50	1.5	PA
Z-H	18	148.3	5.8	69.4	2.73	51	2.00	40 / 60	1.5 / 2.5	40 / 50	1 / 1 <sup>7</sup> / <sub>16</sub>	PA+GS
Z-H	21	172.8	6.8	82.0	3.23	51	2.00	40 / 60	1.5 / 2.5	50	1 / 1 <sup>7</sup> / <sub>16</sub>	PA+GS

S: molded sprockets; S-C1: machined sprockets; Z-H: Multi-Hub sprockets. Other sprocket and hub sizes on request.

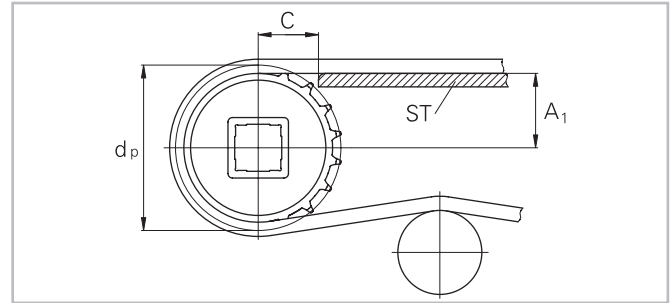
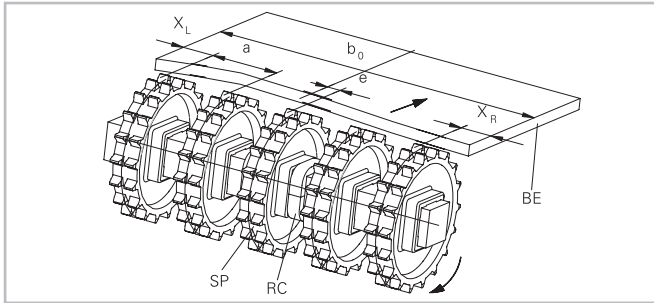
**Key ways** for round bore shape follow European standards for metric sizes and US standards for imperial sizes. For detailed dimensions see table in the Engineering Guide chapter Design Guide.

**Other materials** available on request.



Sprocket one-piece (solid)

### 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 wear strips (SL) 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				
M2420	51	170	42.5	42.5	b <sub>0</sub> / 17 b <sub>0</sub> / 0.67	even number (2, 4, 6 ...)	8.5 0.33	right or left side
	2	6.7	1.67	1.67		odd number (3, 5, 7 ...)	0 0	no offset
M2470 M2480	50.8	152.4	23	23	b <sub>0</sub> / 15.24 b <sub>0</sub> / 0.6	even number (2, 4, 6 ...)	7.6 0.29	right or left side
	2	6	0.9	0.9		odd number (3, 5, 7 ...)	0 0	no offset

**Numbers of sprockets and wearstrips for M2420**

Standard belt width (nominal)		Number of sprockets per shaft	Number of wearstrips	
mm	<i>inch</i>	min. number	Carryway (top)	Returnway (bottom)
85	3.3	1	2	2
170	6.7	2	2	2
255	10.0	2	3	2
340	13.4	2	3	2
425	16.7	3	4	3
510	20.1	3	4	3
595	23.4	4	5	3
680	26.8	4	5	3
765	30.1	5	6	4
850	33.5	5	6	4
935	36.8	6	7	4
1'020	40.2	6	7	4
1'105	43.5	7	8	5
1'190	46.9	7	8	5
1'275	50.2	8	9	5
1'360	53.5	8	9	5
1'445	56.9	9	10	6
1'530	60.2	9	10	6
1'615	63.6	10	11	6
1'700	66.9	10	11	6
1'785	70.3	11	12	7
1'870	73.6	11	12	7
1'955	77.0	12	13	7
2'040	80.3	12	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.

**Numbers of sprockets and wearstrips for M2470, M2480**

Standard belt width (nominal)		Number of sprockets per shaft		Number of wearstrips	
mm	inch	min. number		Carryway (top)	Returnway (bottom)
76	3.0	1		2	2
152	6.0	2		3	2
229	9.0	2		3	2
305	12.0	2		4	2
381	15.0	3		4	3
457	18.0	3		5	3
533	21.0	3		5	3
610	24.0	3		6	3
686	27.0	5		6	4
762	30.0	5		7	4
838	33.0	5		7	4
914	36.0	5		8	4
991	39.0	7		8	5
1'067	42.0	7		9	5
1'143	45.0	7		9	5
1'219	48.0	7		10	5
1'295	51.0	9		10	6
1'372	54.0	9		11	6
1'448	57.0	9		11	6
1'524	60.0	9		12	6
1'600	63.0	11		12	7
1'676	66.0	11		13	7
1'753	69.0	11		13	7
1'829	72.0	11		14	7
1'905	75.0	13		14	8
1'981	78.0	13		15	8
2'057	81.0	13		15	8

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 M2420 ActivXchange 1"**

Standard belt width (nominal)		Number of sprockets per shaft		Number of wearstrips	
mm	inch	Drive shaft (loaded shaft)	Idling shaft (unloaded shaft)	Carryway (top)	Returnway (bottom)
109.8	4.3	1	1	2	2

**Numbers of sprockets and wearstrips for M2470 ActivXchange 1"**

Standard belt width (nominal)		Number of sprockets per shaft		Number of wearstrips	
mm	inch	Drive shaft (loaded shaft)	Idling shaft (unloaded shaft)	Carryway (top)	Returnway (bottom)
152.2	6.0	2	1	2	2

**Numbers of sprockets and wearstrips for M2480 ActivXchange 1**

Standard belt width (nominal)		Number of sprockets per shaft		Number of wearstrips	
mm	inch	Drive shaft (loaded shaft)	Idling shaft (unloaded shaft)	Carryway (top)	Returnway (bottom)
152.2	6.0	2	1	2	2



### Numbers of sprockets and wearstrips for M2470 Flat Top 1" MTW

Standard belt width (nominal)		Number of sprockets per shaft		Number of wearstrips	
mm	inch	Drive shaft (loaded shaft)	Idling shaft (unloaded shaft)	Carryway (top)	Returnway (bottom)
82.6	3.25	1	1	2	2
114.3	4.5	1	1	2	2
152.2	6.0	3	2	2	2
190.5	7.5	3	2	2	2

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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