HabasitLINK®
Sprocket series M2400

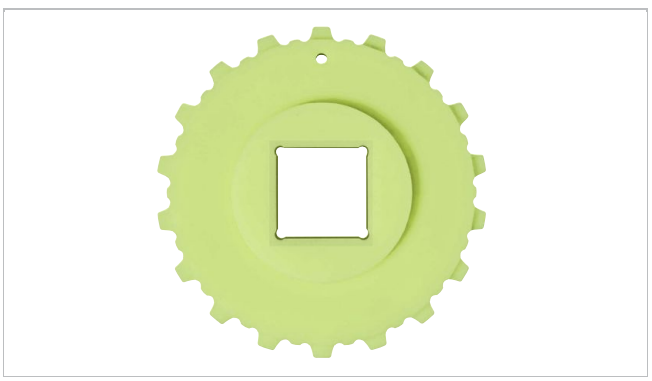
M = Modular belts
Belt pitch
S = sprocket one-piece; Z = split sprocket
Number of teeth
Shaft size
Shaft type: Q = square shaft; R = round shaft
Material: 6 = POM; 8 = PA

M	24	S	12	40	Q	8

Sprocket availability

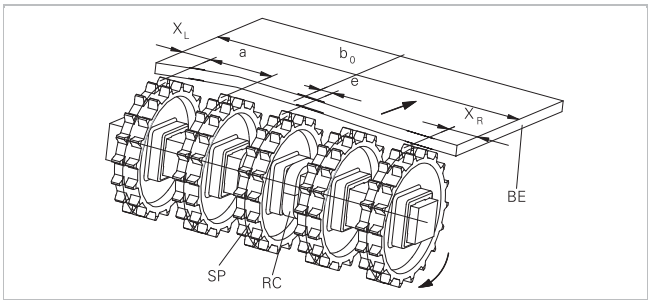
Type	Number of teeth	Diam. of pitch Ø d_p		A_1		Hub width B_L		Square bore Q		Ø Round bore R		Standard material
		mm	*inch*	mm	*inch*	mm	*inch*	mm	*inch*	mm	*inch*	-
S	12	99.5	*3.9*	45.1	*1.78*	25	*0.98*	40		30	*1*	PA
S	15	123.9	*4.9*	57.2	*2.25*	25	*0.98*	60				PA
S	18	148.3	*5.8*	69.4	*2.73*	25	*0.98*	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*			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 7/16*	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 7/16*	PA+GS

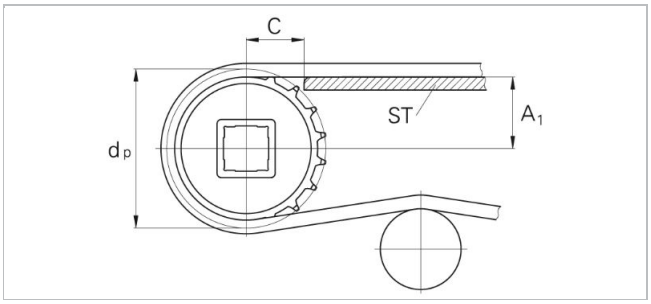
S: molded sprockets; S-C1: machined sprockets; Z-H: Multi-Hub sprockets. Other sprocket and hub sizes on request.
Key ways for round bore shape follow European standards for metric sizes and US standards for imperial sizes. For detailed dimensions see table in the Engineering Guide chapter Design Guide.
Other materials available on request.



Sprocket one-piece (solid)

Sprocket arrangement





BE Belt
RC Retainer
SP Sprocket
b_0 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 devide 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
M2420	51 *2*	170 *6.7*	42.5 *1.67*	42.5 *1.67*	b_0 / 17 *b_0 / 0.67*	even number (2, 4, 6 ...)	8.5 *0.33*	right or left side
						odd number (3, 5, 7 ...)	0 *0*	no offset
M2470 M2480	45.7 *1.8*	152.4 *6*	23 *0.9*	23 *0.9*	b_0 / 15.24 *b_0 / 0.6*	even number (2, 4, 6 ...)	7.6 *0.29*	right or left side
						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	*inch*	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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