

### Sprocket availability

Type	Number of teeth	Diam. of	pitch Ø d <sub>p</sub>	$A_1$		Hub w	lub width B <sub>L</sub> Square		bore Q	Ø Roun	d bore R	Standard material
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	-
S	12	99.5	3.9	46.5	1.83	25	0.98	40		30	1	PA
S	15	123.9	4.9	58.9	2.32	25	0.98	60				PA
S	18	148.3	5.8	71.3	2.81	25	0.98	40 / 60	2.5			PA
S-C1	12	99.5	3.9	46.5	1.83	25	0.98			40	1.5	PA
S-C1	18	148.3	5.8	71.3	2.81	25	0.98			40 / 50	1 / 1.5	PA
S-C1	20	164.6	6.5	79.6	3.13	25	0.98			40 / 50	1.5	PA
Z-H	18	148.3	5.8	71.3	2.81	51	2.00	40 / 60	1.5 / 2.5	40 / 50	1 / 17/16	PA+GS
Z-H	21	172.8	6.8	83.7	3.30	51	2.00	40 / 60	1.5 / 2.5	50	1 / 17/16	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.

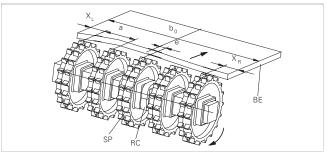
Other materials available on request.

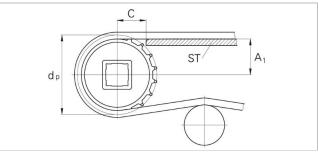


Sprocket one-piece (solid)



### Sprocket arrangement





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

**BE** Belt **RC** Retainer **SP** Sprocket

### **b**<sub>o</sub> belt width **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		dist	et edge ance imal)	Criteria for center sprocket position	Result of formula (rounded)	Offset e	Remarks
	minimal	maximal	$\mathbf{X}_{L}$	X <sub>R</sub>				Offset to which side
	mm	mm	mm	mm	mm		mm	
	inch	inch	inch	inch	inch		inch	
M2420	51	170	42.5	42.5	b <sub>o</sub> / 17	even number (2, 4, 6	8.5	right or left side
	2	6.7	1.67	1.67	$b_{o} / 0.67$	)	0.33	
						odd number (3, 5, 7	0	no offset
						)	0	
M2470	45.7	152.4	23	23	b <sub>o</sub> / 15.24	even number (2, 4, 6	7.6	right or left side
M2480	1.8	6	0.9	0.9	$b_{o} / 0.6$	)	0.29	
						odd number (3, 5, 7	0	no offset
						)	0	
M2483*	50.8	127	25.4	25.4	b <sub>o</sub> / 25.4	even number (2, 4, 6	0	no offset
	2	5	1	1	$b_o/1$	)	0	
						odd number (3, 5, 7	12.7	right or left side
						)	0.5	-

<sup>\*</sup> Avoid sprocket placement at moldule ends.



### Numbers of sprockets and wearstrips for M2420

		Number of sprockets per shaft	Number of wea	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 we	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 M2483

Standard belt width (nominal)		Number of sprockets per shaft	Number of wea	Number of wearstrips		
mm	inch	inch min. number		Returnway (bottom)		
76	3.0	2	2	2		
152	6.0	2	3	2		
229	9.0	3	3	2		
305	12.0	3	4	2		
381	15.0	5	4	3		
457	18.0	5	5	3		
533	21.0	5	5	3		
610	24.0	7	6	3		
686	27.0	7	6	4		
762	30.0	7	7	4		
838	33.0	9	7	4		



914	36.0	9	8	4
991	39.0	9	8	5
1'067	42.0	9	9	5
1'143	45.0	11	9	5
1'219	48.0	11	10	5
1'295	51.0	11	10	6
1'372	54.0	13	11	6
1'448	57.0	13	11	6
1'524	60.0	13	12	6
1'600	63.0	15	12	7
1'676	66.0	15	13	7
1'753	69.0	15	13	7
1'829	72.0	15	14	7
1'905	75.0	17	14	8
1'981	78.0	17	15	8
2'057	81.0	17	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	

<sup>\*</sup> It is possible to use a solid support plate instead of wear strips at carry way side, consult design guide for M2483.



#### 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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