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	**38**	**S**	**12**	**40**	**Q**	**6**

Sprocket availability

| Type	Number of teeth	Diam. of pitch Ø d_p		A_1		Hub width B_L		Square bore Q		Standard material
		mm	*inch*	mm	*inch*	mm	*inch*	mm	*inch*	
S	8	101.9	*4.0*	42.0	*1.65*	30	*1.18*	40	*1.5*	POM
S	12	150.0	*5.9*	66.0	*2.60*	30	*1.18*	40 / 60	*1.5 / 2.5*	POM
S	16	198.2	*7.8*	90.1	*3.55*	30	*1.18*	40 / 60	*1.5 / 2.5*	POM

S: molded sprockets. Other sprocket and hub sizes on request.
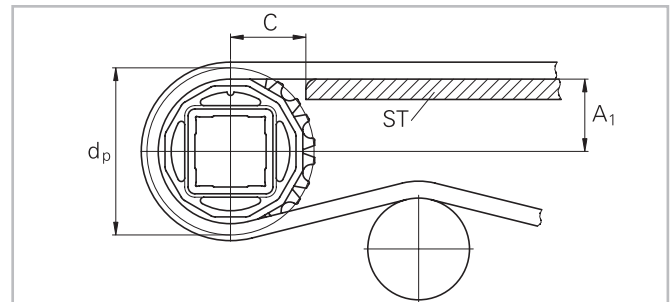**Other materials** available on request.
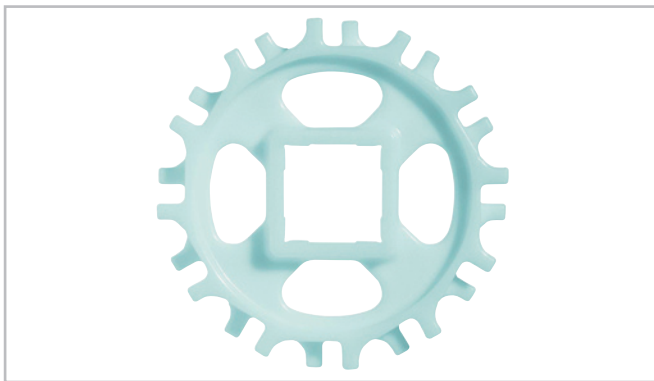
Sprocket one-piece ("open window")

Sprocket arrangement
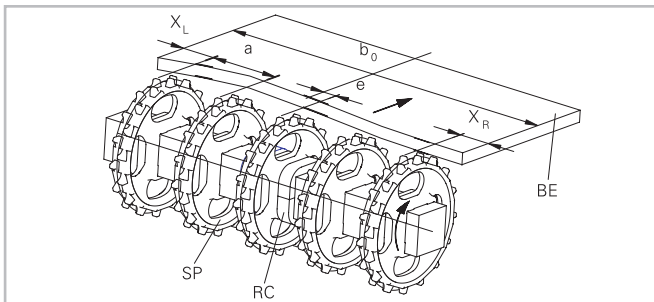
BE Belt
RC Retainer
SP Sprocket
b_0 belt width

The distance **C** between the sprocket axis and the slider support **ST** is minimal 41 mm (1.6").

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
M3840 M3843	50 *2*	125 *5*	44 *1.73*	31 *1.22*	$b_0 / 25$ $b_0 / 0.98$	even number (2, 4, 6 ...)	6.3 *0.25*	left in running direction A right in running direction B
						odd number (3, 5, 7 ...)	6.3 *0.25*	right in running direction A left in running direction B
M3840 M3843 with hold down tabs	50 *2*	125 *5*	68 *2.68*	55 *2.17*	$b_0 / 25$ $b_0 / 0.98$	even number (2, 4, 6 ...)	6.3 *2.25*	left in running direction A right in running direction B
						odd number (3, 5, 7 ...)	6.3 *0.25*	right in running direction A left in running direction B
M3892	50.8 *2*	127 *5*	42.5 *1.67*	57 *2.24*	$b_0 / 25.4$ $b_0 / 1$	even number (2, 4, 6 ...)	6.2 *0.24*	left in running direction A right in running direction B
						odd number (3, 5, 7 ...)	6.2 *0.24*	right in running direction A left in running direction B

* X_L and X_R are related to the running direction A and inverse for running direction B.
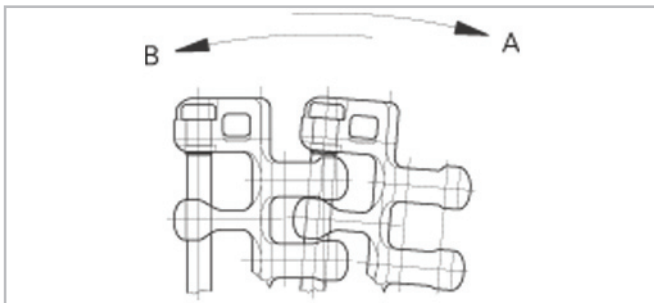
Left edge X_L

Numbers of sprockets and wearstrips for M3840, M3843 and M3892 without hold down tabs

Standard belt width (nominal)		Number of sprockets per shaft	Number of wearstrips	
mm	*inch*	min. number	Carryway (top)	Returnway (bottom)
200	*8*	2	2	2
250	*10*	2	2	2
300	*12*	2	2	2
350	*14*	3	2	2
400	*16*	3	3	3
450	*18*	3	3	3
500	*20*	3	3	3
550	*22*	3	3	3
600	*24*	5	4	3
650	*26*	5	4	3
700	*28*	5	4	3
750	*30*	5	4	3
800	*32*	5	5	4
850	*34*	7	5	4
900	*36*	7	5	4
950	*38*	7	5	4
1'000	*40*	7	6	5
1'050	*42*	7	6	5
1'100	*44*	9	6	5
1'150	*46*	9	6	5
1'200	*48*	9	7	6
1'250	*50*	9	7	6

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 M3840, M3843 with hold down tabs

Standard belt width (nominal)		Number of sprockets per shaft	Number of wearstrips	
mm	*inch*	min. number	Carryway (top)	Returnway (bottom)
200	*8*	2	2	2
250	*10*	2	2	2
300	*12*	2	2	2
350	*14*	3	2	2
400	*16*	3	3	3
450	*18*	3	3	3
500	*20*	3	3	3
550	*22*	3	3	3
600	*24*	5	4	3
650	*26*	5	4	3
700	*28*	5	4	3
750	*30*	5	4	3
800	*32*	5	5	4
850	*34*	7	5	4
900	*36*	7	5	4
950	*38*	7	5	4
1'000	*40*	7	6	5
1'050	*42*	7	6	5
1'100	*44*	9	6	5
1'150	*46*	9	6	5
1'200	*48*	9	7	6
1'250	*50*	9	7	6

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.