

M = Modular belts

Belt pitch

S = sprocket one-piece

Number of teeth

Shaft size

Shaft type: Q = square shaft; R = round shaft

Material: 8 = PA; 6 = POM

M 08 S 24 25 Q 8

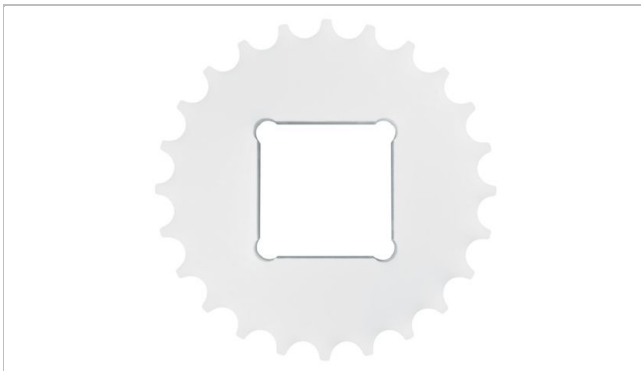
Sprocket availability

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-C1	18	46.5	1.8	21.0	0.83	25	1.00	20	0.75	25	1	POM
S-CS	18	46.5	1.8	21.0	0.83	20	0.79	20	0.75	25	1	POM
S	24	61.8	2.4	28.8	1.13	25	1.00	25	1			POM
S-CS	24	61.8	2.4	28.8	1.13	20	0.79	25	1			POM
S	36	92.6	3.7	44.5	1.75	25	1.00	40				POM

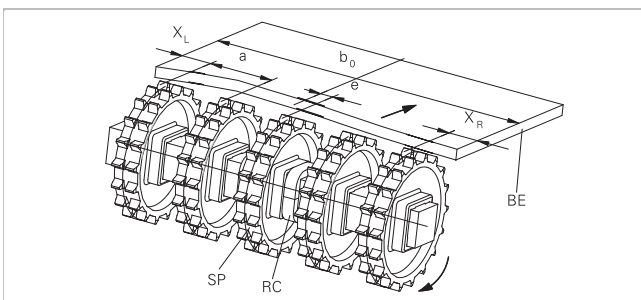
S: molded sprockets; S-C1: machined sprockets; **S-CS**: machined sprockets for **M0863K02**. Other sprocket and hub sizes on request.

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.

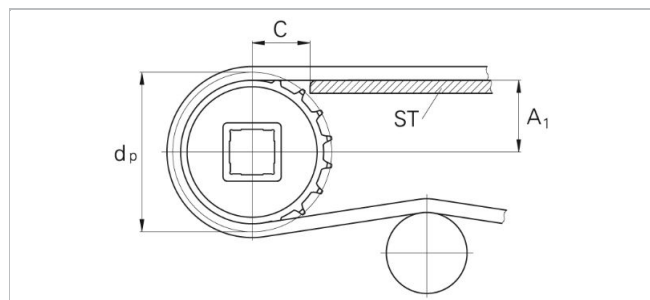
Other materials are available on request.



Sprocket arrangement



BE Belt
RC Retainer
SP Sprocket
b₀ 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 _L mm inch	X _R mm inch				
M0863 M0870 M0876	76.2 3	152.4 6	25 1	25 1	b ₀ / 50.8 b ₀ / 2	even number (2, 4, 6 ...) odd number (3, 5, 7 ...)	0 0	right or left side right or left side
M0870 MTW* M0873*	76.2 3	152.4 6	38 1.5	38 1.5	b ₀ / 50.8 b ₀ / 2	even number (2, 4, 6 ...) odd number (3, 5, 7 ...)	12.7 0.5 12.7 0.5	right or left side right or left side
M0885	76.2 3	152.4 6	50 2	50 2	b ₀ / 50.8 b ₀ / 2	even number (2, 4, 6 ...) odd number (3, 5, 7 ...)	0 0	right or left side right or left side
M0863K03	-	-	38 1.5	38 1.5	-	-	-	-
M0863K02	-	-	25.4 1	25.4 1	-	-	-	-

*For belt widths of 558.8mm (22") with increment steps of +609.6mm (+24") and likewise for belt widths of 609.6mm (24") with increment steps of +609.6mm (+24") the centre sprocket offset is 38mm (1.5") to either the left or right.

For belt widths of 660.4mm (26") with increment steps of +609.6mm (+24") the center sprocket offset is 63.5mm (2.5") to either the left or right.

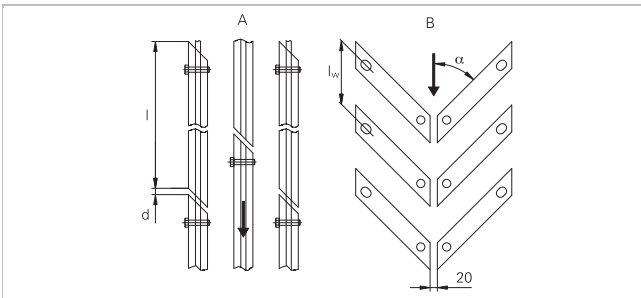
Please consult the installation flyer on our website for further sprocket placement rules.



Edge of M0870



Edge of M0870 MTW / M0873



Numbers of sprockets and wearstrips (returnway - refer to option A in the sketch)

Standard belt width (nominal)		Number of sprockets per shaft	Number of wearstrips
mm	inch	min. number	Returnway (bottom) (refer to A in the sketch)
152	6	2	2
305	12	3	2
457	18	5	3
610	24	7	4
762	30	9	4
914	36	11	5
1067	42	13	6
1219	48	15	6
1372	54	17	8
1524	60	19	8
1676	66	21	10
1829	72	23	10
1981	78	25	12

Arrangement of wearstrips on the carryway (refer to option B in the sketch)

The distance l_w is equal or smaller 150 mm (depending on the load).

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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