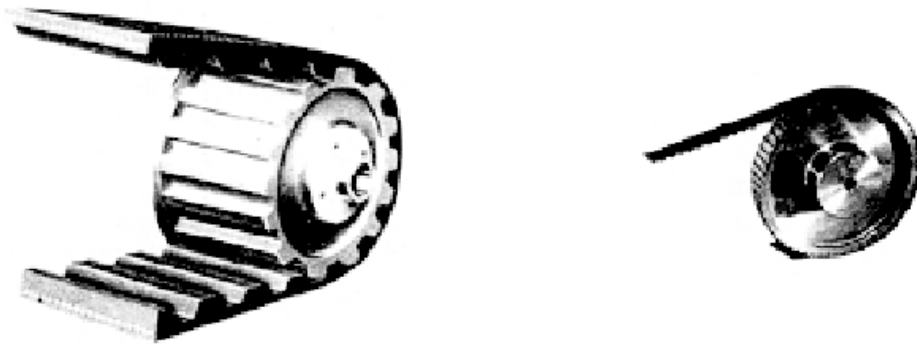


SYNCHRONOUS M.E.C. TIMING BELT®

for industrial transmissions

Discount Ref. 10 Group C

Notched belts, made with neoprene rubber and fibreglass insert, are the latest innovation in the field of transmissions, whereby movement is transmitted from the pulley to the belt and vice versa by reciprocal meshing of the notches, as happens with gear transmission, with no slipping and precision timing. By virtue of their strength, these belts afford powerful transmission in limited space.



Classification of M.E.C. TIMING BELT® belts

M.E.C. TIMING BELT® belts are available as follows, identified by the commercial names which appear next to them, and in the following standard widths:

Pitch code	Commercial name	Pitch		Standard Widths	
		mm	inches	mm	inches (hundredths)
1	MXL	2,032	0.080 (2/25)	3,05-4,80-6,35-7,90-9,40	0,12-0,19-0,25-0,31-0,37
2	XL	5,080	0.200 (1/5)	6,35-7,90-9,40	0,25-0,31-0,37
3	L	9,525	0.375 (3/8)	12,70-19,05-25,40	0,50-0,75-100
4	H	12,700	0.500 (1/2)	19,05-25,40-38,10-50,80-76,20	0,75-100-150-200-300
5	XH	22,225	0.875 (7/8)	50,80-76,20-101,60	200-300-400
6	XXH	31,750	1.250 (1 1/4)	50,80-76,20-101,60-127	200-300-400-500

Identification of M.E.C. TIMING BELT® belts

M.E.C. TIMING BELT® belts are identified by letters which are preceded and followed by numbers which serve to identify pitch and length, pitch diameter and width respectively.

The first number shows the value of the pitch length in tenths of an inch (tenths of an inch times MXL). The letters show the pitch and hence the type of belt. The second number shows the with value in one hundredths of an inch.

Example:

A belt with a pitch development of 60 inches (1524 mm), 1/2 inch pitch (12,7 mm) and 3/4 inch (19,05 mm) width, is written as follows:

600 H 075

M.E.C. TIMING BELT® TOLERANCE

Tables A, B, C show the respective width, development and thickness tolerance of the M.E.C TIMING BELT belts.

Table A - Width tolerances of M.E.C. TIMING BELT MXL, XL, L, H, belts.

Width in hundredths of an inch		Belt width				Tolerance on width (mm)		
		Actual width Ins.		Actual width mm		up to 33" pitch □ development	over 33" up to 66" □ pitch development	over 66" pitch □ development
		over	up to	over	up to			
-	050	-	1/2"	-	12,7	+ 0,4 - 0,8	+ 0,4 - 0,8	- -
050	150	1/2"	1" 1/2	12,7	38,1	± 0,8	+ 0,8 - 1,2	+ 0,8 - 1,2
150	200	1" 1/2	2"	38,1	50,8	+ 0,8 - 1,2	± 1,2	+ 1,2 - 1,6
200	300	2"	3"	50,8	76,2	+ 1,2 - 1,6	± 1,6	+ 1,6 - 2,0

The tolerance on the width of the XH and XXH type belts is +/- 4,8 mm for any width and development.

Table B - Tolerance on development of M.E.C. TIMING BELT belts

Belt length in ins.		Tolerance □ mm	Belt length in ins.		Tolerance □ mm
over	up to		over	up to	
-	10	± 0,40	90	100	± 1,00
10	15	± 0,45	100	110	± 1,05
15	20	± 0,50	110	120	± 1,10
20	30	± 0,60	120	130	± 1,15
30	40	± 0,65	130	140	± 1,20
40	50	± 0,75	140	150	± 1,25
50	60	± 0,80	150	160	± 1,30
60	70	± 0,85	160	170	± 1,35
70	80	± 0,90	170	180	± 1,40
80	90	± 0,95			

Table C - Thickness of M.E.C. TIMING BELT belts □ and relatives tolerance

Type	Thickness □ measured □ on notch mm	Degree of □ tolerance mm
MXL	1,14	± 0,6
XL	2,3	± 0,6
L	3,6	± 0,6
H	4,3	± 0,6
XH	11,2	± 0,6
XXH	15,7	± 0,6



Section □	t mm	t (")	h _s mm	h _t mm
MXL	2,032	2/25	1,14	0,51
XL	5,08	1/5	2,3	1,27
L	9,525	3/8	3,6	1,90
H	12,7	1/2	4,3	2,29
XH	22,225	7/8	11,2	6,35
XXH	31,75	1 1/4	15,7	9,53

All M.E.C. TIMING BELT belts have a □ rectified outside surface and a special □ fibreglass insert ensuring fluid movement.

Please consult the calculus booklet for technical features

M.E.C. TIMING BELT®

MXL Pitch 2/25" (2,032 mm)

N°
Teeth

Type and
pitch
length in
hundredths
of an inch

54	432 MXL
55	440 MXL
56	448 MXL
58	464 MXL
60	480 MXL
68	544 MXL
70	560 MXL
71	568 MXL
72	576 MXL
75	600 MXL
77	616 MXL
80	640 MXL
82	656 MXL
84	672 MXL
85	680 MXL
87	696 MXL
88	704 MXL
90	720 MXL
94	752 MXL
95	760 MXL
97	776 MXL
100	800 MXL
101	808 MXL
103	824 MXL
105	840 MXL
106	848 MXL
110	880 MXL
112	896 MXL
113	904 MXL
114	912 MXL
118	944 MXL
120	960 MXL
122	976 MXL
123	984 MXL
125	1000 MXL
126	1008 MXL
132	1056 MXL
140	1120 MXL
150	1200 MXL
165	1320 MXL
170	1360 MXL

MXL Pitch 2/25" (2,032 mm)

N°
Teeth

Type and
pitch
length in
hundredths
of an inch

175	1400 MXL
180	1440 MXL
184	1472 MXL
225	1800 MXL
236	1888 MXL
251	2008 MXL
298	2384 MXL
353	2824 MXL
371	2968 MXL
400	3200 MXL
421	3296 MXL
434	3472 MXL
453	3624 MXL
463	3704 MXL
503	4024 MXL
505	4040 MXL

M.E.C. TIMING BELT®

XL Pitch 1/5" (5,080 mm)

N° Teeth	Type and pitch length in hundredths of an inch
27	54 XL
30	60 XL
33	66 XL
35	70 XL
40	80 XL
43	86 XL
45	90 XL
46	92 XL
47	94 XL
48	96 XL
49	98 XL
50	100 XL
51	102 XL
53	106 XL
54	108 XL
55	110 XL
56	112 XL
58	116 XL
59	118 XL
60	120 XL
62	124 XL
63	126 XL
65	130 XL
67	134 XL
68	136 XL
69	138 XL
70	140 XL
74	148 XL
75	150 XL
78	156 XL
80	160 XL
81	162 XL
83	166 XL
84	168 XL
85	170 XL
87	174 XL
88	176 XL
89	178 XL
90	180 XL
91	182 XL
92	184 XL
95	190 XL
98	196 XL

XL Pitch 1/5" (5,080 mm)

N° Teeth	Type and pitch length in hundredths of an inch
100	200 XL
101	202 XL
105	210 XL
107	214 XL
110	220 XL
114	228 XL
115	230 XL
117	234 XL
120	240 XL
124	248 XL
125	250 XL
130	260 XL
135	270 XL
136	272 XL
137	274 XL
140	280 XL
143	286 XL
145	290 XL
150	300 XL
153	306 XL
155	310 XL
156	316 XL
161	322 XL
165	330 XL
170	340 XL
172	344 XL
175	350 XL
176	352 XL
190	380 XL
192	384 XL
194	388 XL
195	390 XL
196	392 XL
206	412 XL
207	414 XL
219	438 XL
230	460 XL
249	498 XL
253	506 XL
257	514 XL
290	580 XL
315	630 XL

M.E.C. TIMING BELT®

L Pitch 3/8" (9,525 mm)

N° Teeth	Type and pitch length in hundredths of an inch
33	124 L
36	135 L
40	150 L
50	187 L
56	210 L
60	225 L
63	236 L
64	240 L
68	255 L
72	270 L
76	285 L
80	300 L
86	322 L
92	345 L
98	367 L
104	390 L
108	405 L
112	420 L
120	450 L
121	454 L
128	480 L
136	510 L
144	540 L
160	600 L
* 194	728 L
* 218	817 L

H Pitch 1/2" (12,7 mm)

N° Teeth	Type and pitch length in hundredths of an inch
48	240 H
51	255 H
54	270 H
60	300 H
66	330 H
67	335 H
72	360 H
74	370 H
78	390 H
84	420 H
90	450 H
96	480 H
102	510 H
108	540 H
114	570 H
120	600 H
126	630 H
132	660 H
140	700 H
145	725 H
146	730 H
150	750 H
160	800 H
170	850 H
180	900 H
200	1000 H
220	1100 H
*224	1120 H
*228	1140 H
*230	1150 H
250	1250 H
280	1400 H
340	1700 H

M.E.C. TIMING BELT®**XH** Pitch 7/8" (22,225 mm)

N° Teeth	Type and pitch length in hundredths of an inch
58	507 XH
61	534 XH
64	560 XH
72	630 XH
80	700 XH
88	770 XH
96	840 XH
112	980 XH
128	1120 XH
144	1260 XH
160	1400 XH
176	1540 XH
200	1750 XH

XXH Pitch 1"1/4 (31,75 mm)

N° Teeth	Type and pitch length in hundredths of an inch
56	700 XXH
64	800 XXH
72	900 XXH
80	1000 XXH
96	1200 XXH
112	1400 XXH
128	1600 XXH
144	1800 XXH