

M.E.C. TIMING BELT[®] HTD[®] CXP[®]

More than 50 % of power than the HTD[®] Standard belts

M.E.C. TIMING BELT[®] HTD[®] CXP[®]

More than 100 % of power than the HTD[®] Standard belts

Discount Ref. 28 Group Y

SPECIFICATIONS

The HTD[®] CXP[®] and CXA[®] belts are especially recommended in the transmissions with heavy loads or quickly changeable.

They enable respectively:

- To increase the transmissible power up to 50% and 100% , with consequent reduction of the width of the belt ;
- To utilize the same pulleys provided for the HTD system, keeping the functional interchangeability also with other system of deep profile
- To improve the working life of the current transmission, without changing the pulleys.

Available pitch : CXP 3-5-8-14 M
CXA 8-14 M

PERFORMANCES

CXP more than 50% of life for each inch of width.

CXP more than 50% of life than the transmission width standard HTD

CXA 100% as above than standard HTD

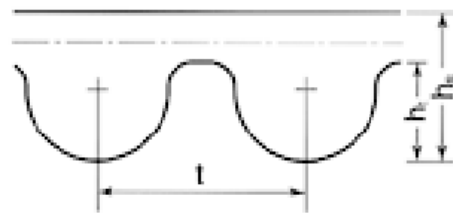
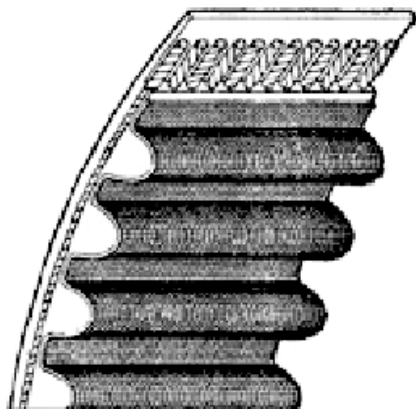
More compact transmissions.

Reduction of the real costs.

Better efficiency.

Resistance temperature – 40° or +100° C

Oil resistance, ozone resistance.



N.B. The types CXP and CXA as well as transmit considerable more power offer less bulk and considerable price saving of the respective pulleys.

Pitches	t mm	h (s) mm	H (t) mm
3 M	3	2,4	1,2
5 M	5	3,6	2,1
8 M	8	5,6	3,4
14 M	14	10	6,1

The type CXP is in polychloroprene with insert of plaited glass fibres.
 The type CXA has got the mixture like the CXP while the insert are in aramid.

Pitch available : 3 – 5 – 8 – 14 M for CXP
 8 – 14 M for CXA

Classification of M.E.C. TIMING BELT[®] HTD[®] CXP[®] and CXA[®]

The belts are available in the following pitch distinguished by commercial names shown aside and the following standard widths.

Pitch code	Commercial name	Pitch mm	Notch thickness mm	Tot. thickness mm	Standard Widths mm
5	3 M CXP	3	1,2	2,4	6-9-15
6	5 M CXP	5	2,1	3,6	9-15-25
7	8 M CXP	8	3,4	5,6	20-30-50-85
8	14 M CXP	14	6,1	10	40-55-85-115-170
3	8 MS CXA	8	3,4	5,6	20-30-50-85

Specification of M.E.C. TIMING BELT[®] HTD[®] CXP[®] and CXA[®]

The M.E.C. TIMING BELT[®] HTD[®] CXP and CXA are distinguished by pitch length in mm , pitch in mm, width in mm.

Example:

A belt with a pitch length in mm 960 mm or 1120, the pitch 8 mm and the width 50mm is indicated as follows :

960 8M 50 CXP or 1120 8M CXA

SYNCHRONOUS HTD[®], CXP and CXA BELTS TOLERANCES

Table 1 – Standard tolerances on the width of the belts TIMING BELT HTD[®] CXP and CXA

Width of the belt (mm)		Tolerance for length from (mm)		
		Up to 838	from 838 to 1676	over 1676
-	11,1	+ 0,5 - 0,8	+ 0,5 - 0,8	- -
11,1	38,1	+ 0,8 - 0,8	+ 0,8 - 1,3	+ 0,8 - 1,3
38,1	50,8	+ 0,8 - 1,3	+ 1,3 - 1,3	+ 1,3 - 1,5
50,8	76,2	+ 1,3 - 1,5	+ 1,5 - 1,5	+ 1,5 - 2,0

Table 2 – Standard tolerances on the thickness of the belts TIMING BELT HTD[®] CXP and CXA

Type CXP and CXA	Thickness (mm)	Tolerances		
		Degree1	Degree 2	Standard
CXP 3	2,4	± 0,15	± 0,25	± 0,6
CXP 5	3,8	± 0,15	± 0,25	± 0,6
CXP e CXA 8	5,4	± 0,15	± 0,25	± 0,6
CXP e CXA 14	9,7	± 0,15	± 0,25	± 0,6

Table 3 – Standard tolerances on development of the belts TIMING BELT HTD[®] CXP and CXA

Width of the belt (mm)		Tolerance on the development (mm)	Tolerance on the wheelbase (mm)
111	384	± 0,45	± 0,225
384	501	± 0,50	± 0,25
501	753	± 0,60	± 0,30
753	960	± 0,65	± 0,325
960	1245	± 0,75	± 0,375
1245	1600	± 0,80	± 0,40
1600	1760	± 0,85	± 0,425
1760	2000	± 0,90	± 0,45
2000	2800	± 0,95	± 0,475
Per L > 2286		(0,95+ $\frac{L-2286}{254}$ x0,03)	(0,95+ $\frac{L-2286}{254}$ x0,015)

For special uses, like for example fixed wheelbase transmissions, that require different tolerances from those standard, ask for technicians advices.

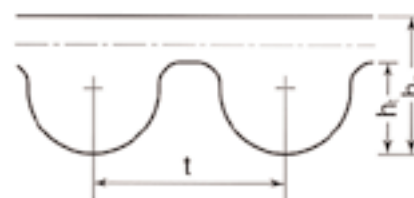
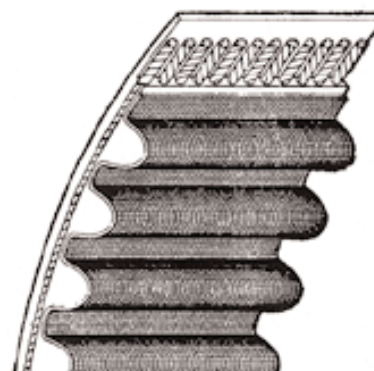
M.E.C. TIMING BELT® HTD® CXP®

Pitch 3M

Type	Pitch and development in mm	N° Teeth			
			6mm	9mm	15mm
111-3M	111	37			
117-3M	117	39			
129-3M	129	43			
144-3M	144	48			
159-3M	159	53			
168-3M	168	56			
174-3M	174	58			
177-3M	177	59			
204-3M	204	68			
210-3M	210	70			
213-3M	213	71			
216-3M	216	72			
225-3M	225	75			
240-3M	240	80			
246-3M	246	82			
252-3M	252	84			
255-3M	255	85			
267-3M	267	89			
300-3M	300	100			
318-3M	318	108			
336-3M	336	112			
339-3M	339	113			
363-3M	363	121			
384-3M	384	128			
390-3M	390	130			
420-3M	420	140			
447-3M	447	149			
474-3M	474	158			
480-3M	480	160			
489-3M	489	163			
495-3M	495	165			
501-3M	501	167			
513-3M	513	171			
522-3M	522	174			
525-3M	525	175			
537-3M	537	179			
564-3M	564	188			
570-3M	570	190			
606-3M	606	202			
612-3M	612	204			
633-3M	633	211			

Pitch 3M

Type	Pitch and development in mm	N° Teeth			
			6mm	9mm	15mm
708-3M	708	236			
711-3M	711	237			
753-3M	753	251			
843-3M	843	281			
882-3M	882	294			
945-3M	945	315			
960-3M	960	320			
1041-3M	1041	347			
1068-3M	1068	356			
1071-3M	1071	357			
1125-3M	1125	375			
1176-3M	1176	392			
1245-3M	1245	415			
1569-3M	1569	523			



Pitches	t mm	h _s mm	h _t mm
3 M	3	2,4	1,2
5 M	5	3,6	2,1
8 M	8	5,6	3,4
14 M	14	10,0	6,1

M.E.C. TIMING BELT® HTD® CXP®

Pitch 5M

Type	Pitch and development in mm	N° Teeth	9mm	15mm	25mm
265-5M	265	53			
295-5M	295	59			
300-5M	300	60			
330-5M	330	66			
350-5M	350	70			
375-5M	375	75			
400-5M	400	80			
425-5M	425	85			
450-5M	450	90			
460-5M	460	92			
475-5M	475	95			
500-5M	500	100			
535-5M	535	107			
565-5M	565	113			
600-5M	600	120			
615-5M	615	123			
620-5M	620	124			
630-5M	630	126			
635-5M	635	127			
665-5M	665	133			
710-5M	710	142			
755-5M	755	151			
800-5M	800	160			
890-5M	890	178			
900-5M	900	180			
925-5M	925	185			
1000-5M	1000	200			
1050-5M	1050	210			
1125-5M	1125	225			
1270-5M	1270	254			
1500-5M	1500	300			

Pitch 8M

Type	Pitch and development in mm	N° Teeth	20mm	30mm	50mm	85mm
376-8M	376	47				
424-8M	424	53				
480-8M	480	60				
560-8M	560	70				
600-8M	600	75				
624-8M	624	78				
640-8M	640	80				
656-8M	656	82				
720-8M	720	90				
776-8M	776	97				
784-8M	784	98				
800-8M	800	100				
880-8M	880	110				
912-8M	912	114				
920-8M	920	115				
960-8M	960	120				
1040-8M	1040	130				
1120-8M	1120	140				
1200-8M	1200	150				
1280-8M	1280	160				
1304-8M	1304	163				
1328-8M	1328	166				
1360-8M	1360	170				
1424-8M	1424	179				
1440-8M	1440	180				
1600-8M	1600	200				
1760-8M	1760	220				
1800-8M	1800	225				
2000-8M	2000	250				
2248-8M	2248	281				
2400-8M	2400	300				
2800-8M	2800	350				

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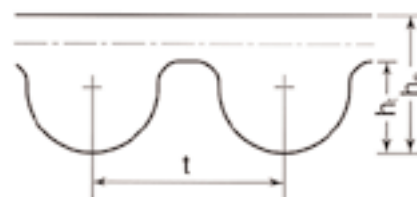
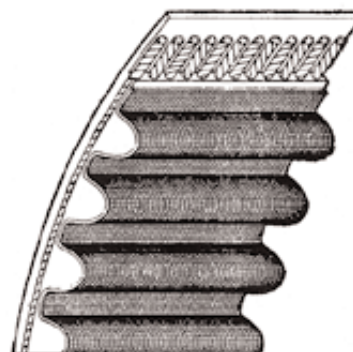
Pitch 14M

Type	Pitch and development in mm	N° Teeth	40mm	55mm	85mm	115mm	170mm
966-14M	966	69					
1190-14M	1190	85					
1400-14M	1400	100					
1610-14M	1610	115					
1778-14M	1778	127					
1890-14M	1890	135					
2100-14M	2100	150					
2310-14M	2310	165					
2450-14M	2450	175					
2590-14M	2590	185					
2800-14M	2800	200					
3150-14M	3150	225					
3500-14M	3500	250					
3850-14M	3850	275					
4326-14M	4326	309					
4578-14M	4578	327					

M.E.C. TIMING BELT® HTD® CXA®

Pitch 8M

Type	Pitch and development in mm	N° Teeth	20mm	30mm	50mm	85mm
1040-8M	1040	130				
1120-8M	1120	140				
1200-8M	1200	150				
1280-8M	1280	160				
1304-8M	1304	163				
1328-8M	1328	166				
1360-8M	1360	170				
1424-8M	1424	178				
1440-8M	1440	180				
1600-8M	1600	200				
1760-8M	1760	220				
1800-8M	1800	225				
2000-8M	2000	250				
2248-8M	2248	281				
2400-8M	2400	300				
2800-8M	2800	350				



Pitches	t mm	h _s mm	h _t mm
8 M	8	5,6	3,4