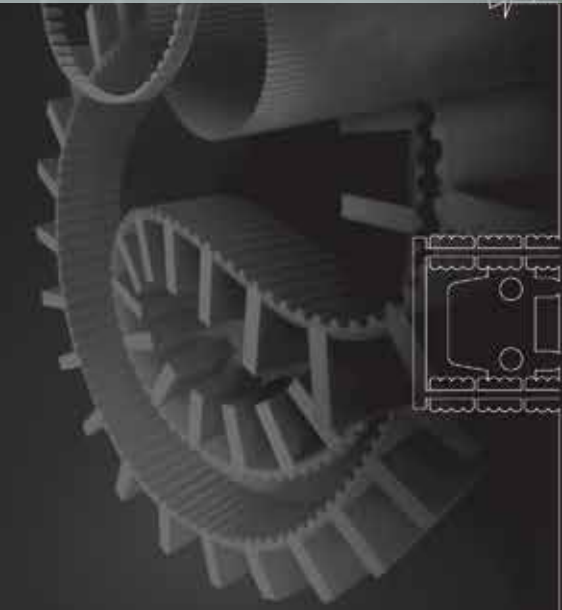




Polyurethane **BELTS**



Technology in Motion.



The Company

THE COMPANY

ELATECH® is a Company fully dedicated to the research, development and manufacture of polyurethane belts for industrial applications.

The unique manufacturing processes, made possible by the newest generation technologies, modern and efficient test and control equipment and a unique team of qualified technicians and engineers, allow ELATECH® to offer superior products and highly flexible service.

Our Mission

OUR MISSION

Constantly growing, together with our customers, in product and process innovation to develop the best polyurethane belt for every industrial application

Global presence

GLOBAL PRESENCE

With 6 sister Companies on 3 continents and a wide range of qualified distributors, ELATECH® guarantees a superior technical and delivery service worldwide.

Research and development

RESEARCH and DEVELOPMENT

We strongly believe innovation is the key to success for our Customers. We are totally committed to quality and close cooperation with our Customers to solve in the most advanced and economic way all the problems of design engineers. Our qualified technicians and our advanced test laboratory with the most modern resources allow us to offer the most effective solutions in all conveying, lifting or power transmission applications.



Total quality

TOTAL QUALITY

In ELATECH® the term "quality" is not only limited to the product. We offer professional and competent consulting service with fast and reliable deliveries. The certification of our quality system confirms the quality consciousness of our Company and of all our employees. Our management system is certified according to **ISO 9001:2008**



Products

PRODUCTS

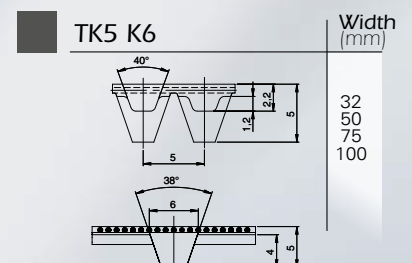
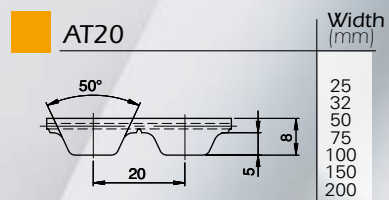
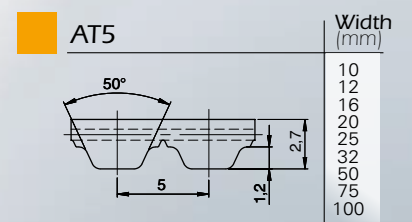
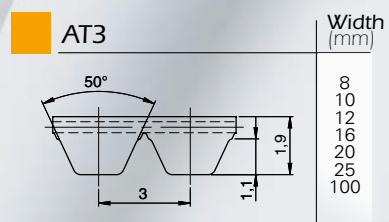
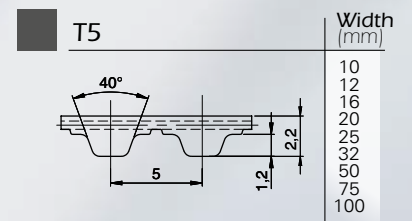
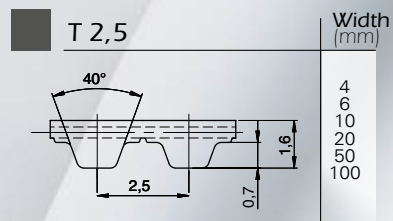
ELATECH® provides the most extensive offer available on the market ranging from long length open end rolls, welded belts, SYNCRO-MAX® extra wide belts, ELA-flex SD® truly endless belts and iSync® sleeves. Furthermore, the product range is completed by a wide choice of mechanical joints, false teeth, backings, flights, cleats and other accessories.



Elatech M

ELATECH M OPEN END

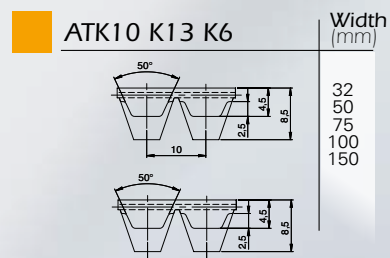
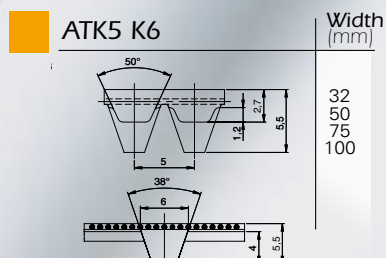
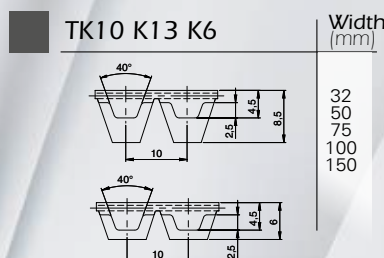
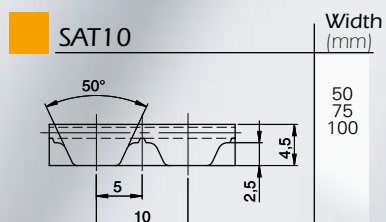
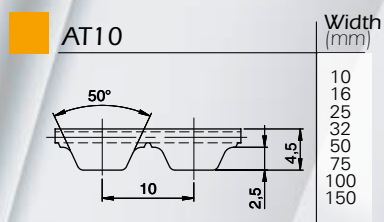
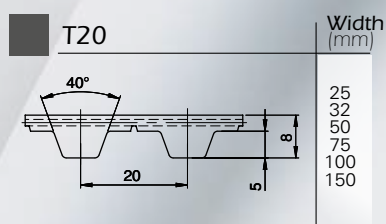
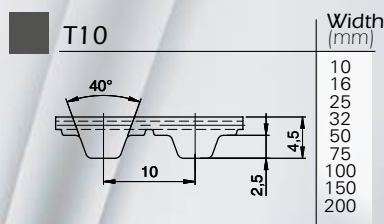
Open end

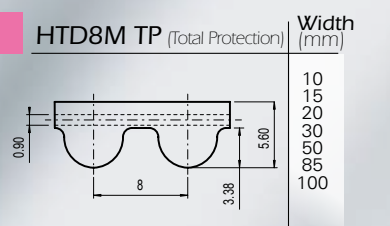
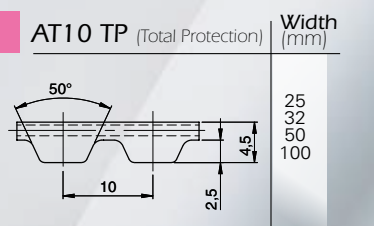
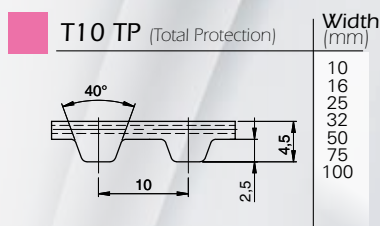
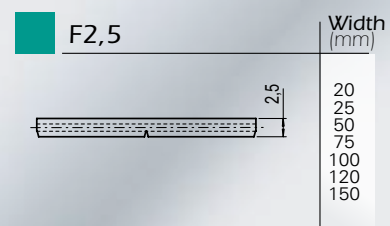
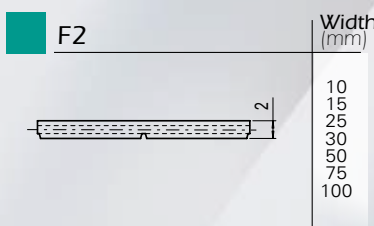
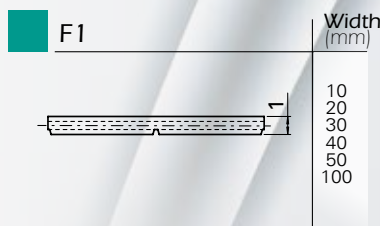
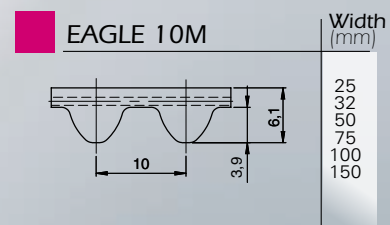
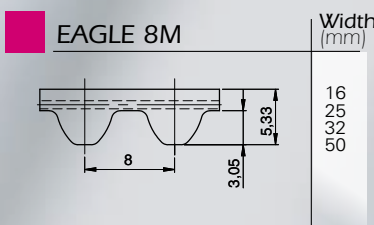
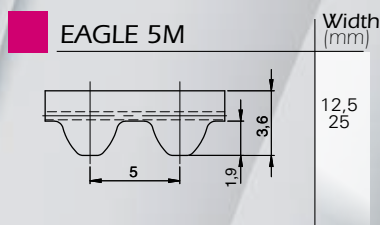
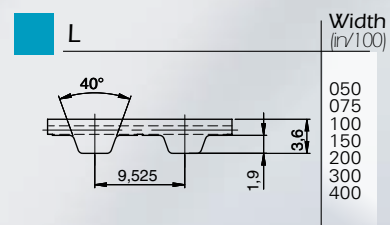
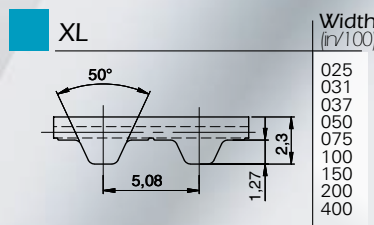
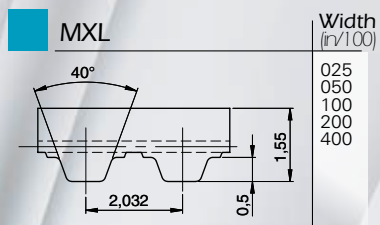
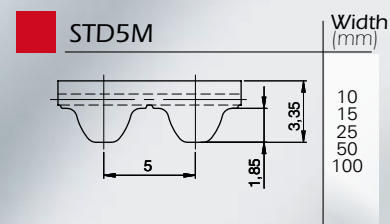
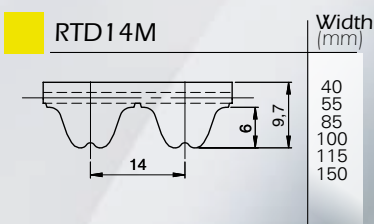
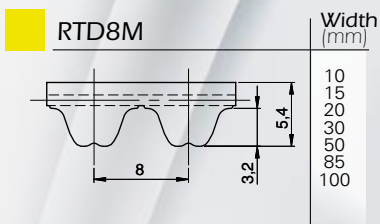
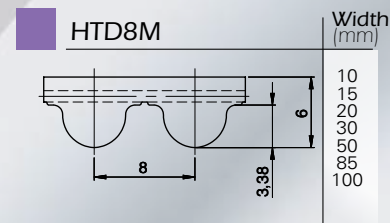
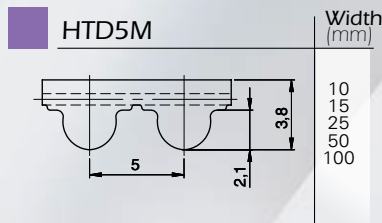
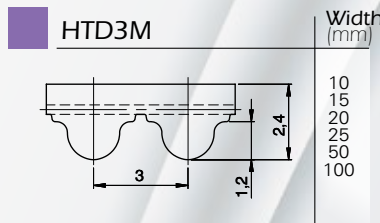


ELATECH® production includes the widest range of high performance profiles in different pitches, allowing to select the best technical solution in every drive application. Additionally, for special applications our engineering department studies and delivers innovative and unique solutions to even the most complex requirements in linear motion and lifting applications.

In order to maximize the application of ELATECH® timing belts, our products can be delivered with:

- Special cords:
 - HFE high flexibility
 - HPL high performance
 - XHPL extra-high performance
 - INOX stainless steel
- Aramid
- Antistatic properties
- Special colour
- Double sided execution
- Total protection execution
- High temperature resistant PU
- FDA-compliant PU and cords





T



AT



HTD



RTD



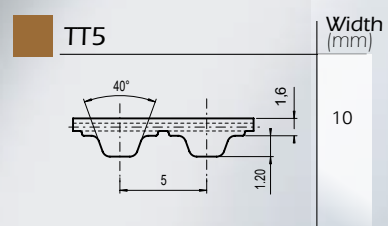
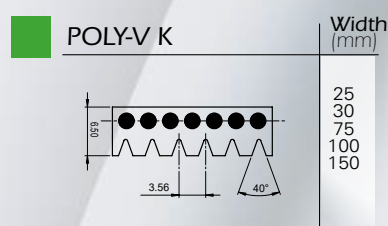
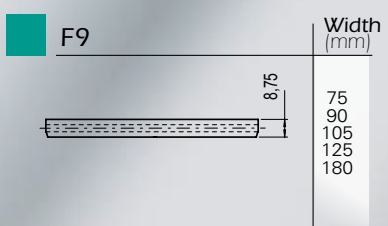
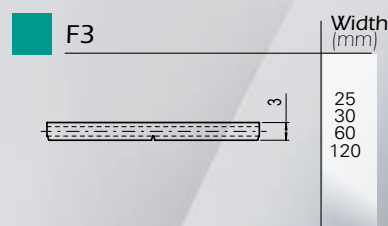
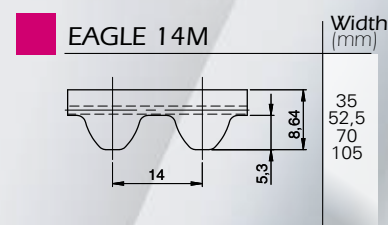
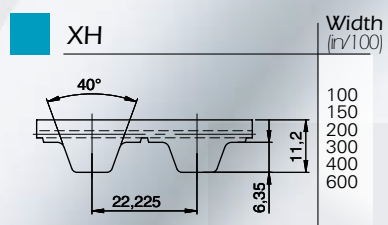
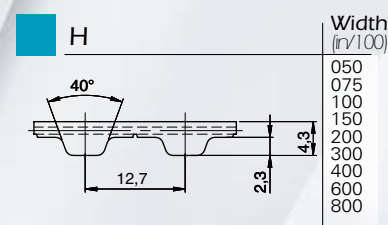
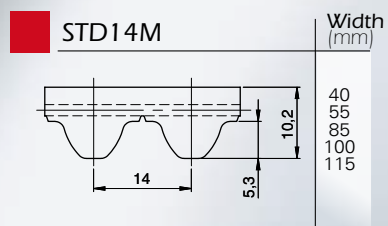
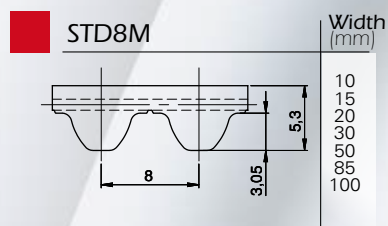
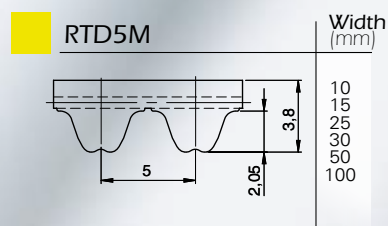
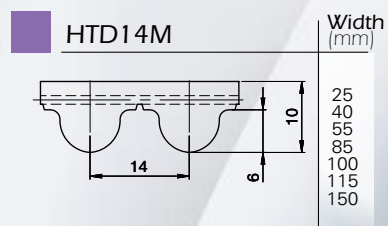
STD



L-H



F



Open End
OPEN END

Elatech

ELATECH SYNCRO-MAX®

Syncro-Max



Extra-wide Polyurethane Belts

ELATECH® SYNCRO-MAX® Extra-wide Polyurethane Belts extend the advantages of synchronous timing belts to wider surfaces and to the typical applications of flat and modular conveyor belts.

T 10	Width (mm)	H	Width (in)
	200		8
	250		10
	300		12
	350		14
	400		16
	450		18
	500 ÷ 510		20

Product overview

- Natural colour PU compound material 92 Sh A
- High durability
- Cut resistant
- Grease, chemicals and water resistant
- Non-marking
- Kevlar (Aramid) parallel cord reinforcement
- No cords exposure on belt edges
- Even cord tension
- Available in open end and welded execution
- Standard roll length 50 m

Advantages

- Synchronous conveying = no slippage, better tracking, higher indexing precision
- Smaller drive pulley requirements, lower belt tension and lower shaft loads = power saving

Typical application

- Conveying, packaging, production of baby diapers / feminine hygiene items, tires production.

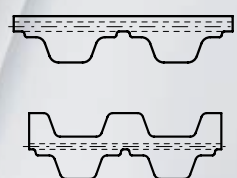


ELA-flex SD[®]

ELA-flex SD[®]

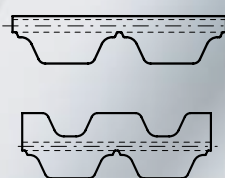


T profile



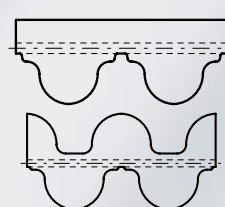
T5
T10
T20

AT profile



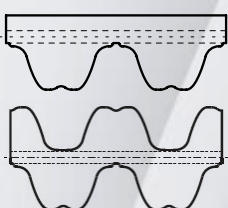
AT5
AT10
AT15
AT20

HTD profile



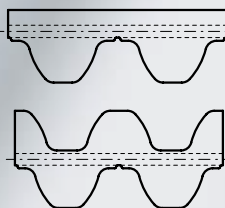
5M
8M
14M

RTD profile



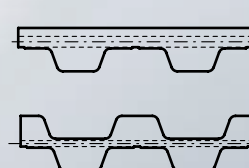
5M
8M
14M

STD profile



5M
8M
14M

IMPERIAL profile



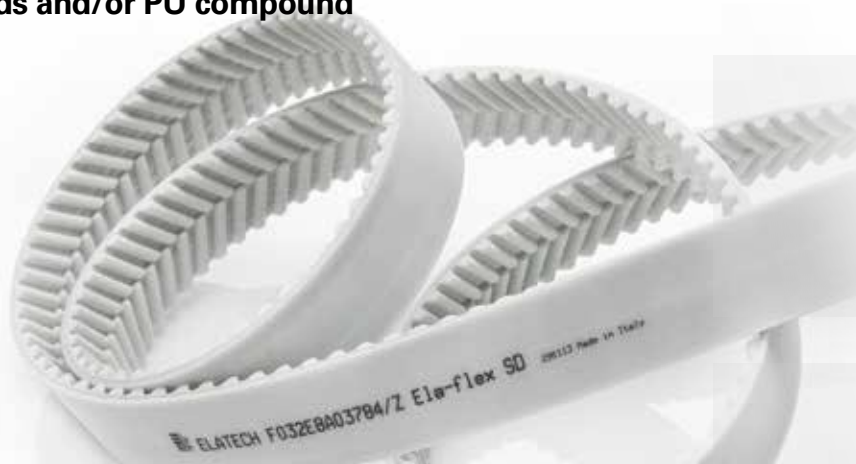
XL
L
H
XH

ELA-flex SD® timing belts are manufactured with truly endless high tensile steel tension cords and high wear resistant polyurethane body. Having no splices or welding, the belts have no weak cross section. They are therefore ideal for power transmission applications and high load conveying transmissions.

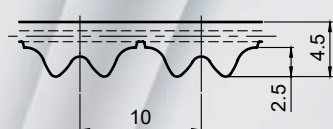
The unique hi-tech manufacturing process designed by our technicians allows the production of every belt length, tooth by tooth from a minimum of 800 mm to a maximum of 24000 mm, thus providing the highest flexibility for any application.

Available options:

- **Dual toothing execution over 1500 mm**
- **PAZ fabric included over 800 mm for many profiles**
- **Special cords and/or PU compound**

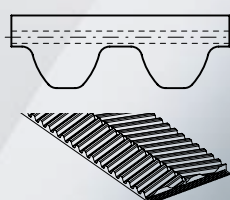


ATM10



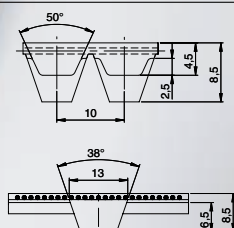
16
25
32
50
75
100

EAGLE profile

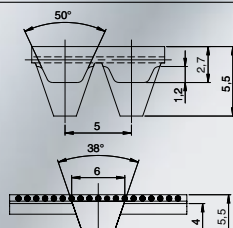


5M
8M
10M
14M

ATK10 - K6 profiles



ATK5 - K6 profiles



FLAT



F2
F2.5
F3

iSync® Belts

iSYNC® BELTS



Features

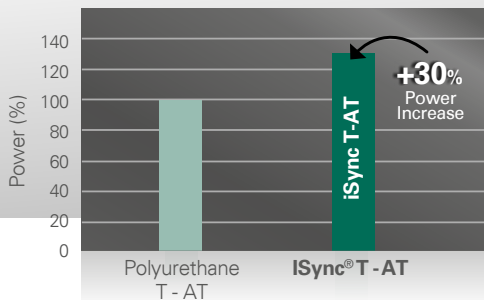
- High power transmission capabilities
 - Maintenance free
 - Superior length stability
- Very high chemical resistance and particularly to oils, greases and gasoline
- Superior abrasion resistance
 - High quality polyurethane designed specifically for timing belt applications
- Available with either steel or Kevlar® reinforcement
- Application temperature -30 °C / +125 °C
 - Available in FDA-compliant execution

Standard iSync® sleeve belt sizes

SINGLE TOOTHING

T 2,5		Number of teeth Z	Length (mm)	Number of teeth Z	Length (mm)	Number of teeth Z	Length (mm)	Number of teeth Z	Length (mm)
		48	120	92	230	132	330	260	650
		58	145	98	245	137	342,5	312	780
		64	160	106	265	152	380	366	915
		71	177,5	111	277,5	168	420	380	950
		72	180	114	285	192	480	590	1475
		74	185	116	290	200	500		
		80	200	122	305	216	540		
		84	210	127	317,5	240	600		

ELATECH® iSync® belts are innovative truly endless high performance power transmission belts with thermo-plastic resin body and steel (standard) or aramid fiber (on demand) traction cords. The high modulus cords used in the production of our belts ensure great length stability and low bearing load. The special manufacturing method and the materials used make ELATECH® iSync® belts extremely precise and therefore suitable for all applications where high performances are needed.



ELATECH® iSync® belts transmit up to 30% more power than conventional belts in the same space, or the same amount of power with a more compact drive.

Applications

- Power transmission drives
 - where high precision is needed
 - where cleanliness is critical
 - in difficult environment (presence of chemicals)
- Heavy-duty conveying drives
 - with special backing
 - with cleats

Available profile range

ELATECH® iSync® belts are available in standard configuration in the following profile range:

- **T2,5, T5, T10, AT5, AT10, L, XL**
- **DT5, DT10** (Dual Toothing)

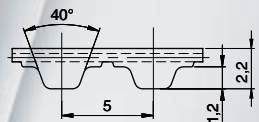
The following profiles and executions are manufactured on request:

- **MXL, HTD5M**

Standard iSync® sleeve belt sizes

SINGLE TOOTHING

T 5



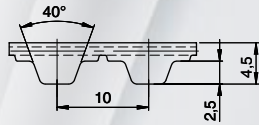
Number of teeth z	Length mm	Number of teeth z	Length mm	Number of teeth z	Length mm	Number of teeth z	Length mm	Number of teeth z	Length mm
33	165	64	320	91	455	130	650	200	1000
36	180	65	325	92	460	132	660	215	1075
37	185	66	330	95	475	135	675	220	1100
40	200	68	340	96	480	138	690	223	1115
42	210	70	350	100	500	140	700	228	1140
43	215	71	355	102	510	144	720	240	1200
44	220	72	360	105	525	145	725	243	1215
45	225	73	365	109	545	150	750	253	1265
49	245	75	375	110	550	156	780	255	1275
50	250	78	390	112	560	160	800	256	1280
51	255	80	400	115	575	163	815	263	1315
52	260	82	410	118	590	166	830	270	1350
54	270	84	420	120	600	168	840	271	1355
55	275	85	425	122	610	170	850	276	1380
56	280	86	430	124	620	172	860	288	1440
59	295	88	440	125	625	180	900		
60	300	89	445	126	630	188	940		
61	305	90	450	128	640	198	990		



Standard iSync® sleeve belt sizes

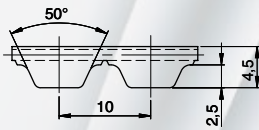
SINGLE TOOTHING

T 10



Number of teeth z	Length (mm)	Number of teeth z	Length (mm)	Number of teeth z	Length (mm)	Number of teeth z	Length (mm)
26	260	68	680	97	970	140	1400
32	320	69	690	98	980	142	1420
35	350	70	700	100	1000	144	1440
37	370	72	720	101	1010	145	1450
40	400	73	730	105	1050	146	1460
41	410	75	750	108	1080	150	1500
44	440	78	780	110	1100	156	1560
45	450	80	800	111	1110	160	1600
48	480	81	810	114	1140	161	1610
50	500	84	840	115	1150	170	1700
53	530	85	850	120	1200	175	1750
55	550	88	880	121	1210	178	1780
56	560	89	890	124	1240	180	1800
60	600	90	900	125	1250	188	1880
61	610	91	910	130	1300	196	1960
63	630	92	920	132	1320	225	2250
65	650	95	950	135	1350		
66	660	96	960	139	1390		

AT 10

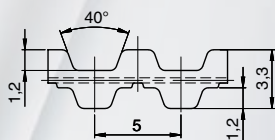


Number of teeth z	Length (mm)	Number of teeth z	Length (mm)	Number of teeth z	Length (mm)	Number of teeth z	Length (mm)
50	500	81	810	110	1100	140	1400
53	530	84	840	115	1150	142	1420
56	560	88	880	120	1200	148	1480
58	580	89	890	121	1210	150	1500
60	600	92	920	123	1230	160	1600
61	610	96	960	125	1250	170	1700
66	660	98	980	128	1280	172	1720
70	700	100	1000	130	1300	180	1800
73	730	101	1010	132	1320	186	1860
78	780	105	1050	135	1350	194	1940
80	800	108	1080	136	1360		

Standard iSync® sleeve belt sizes

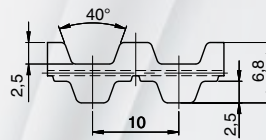
DUAL TOOTHING

DT 5



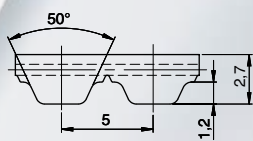
Number of teeth z	Length (mm)
82	410
92	460
118	590
124	620
150	750
163	815
172	860
188	940
220	1100

DT10



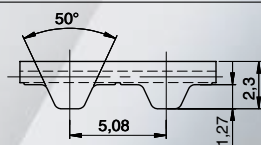
Number of teeth z	Length (mm)	Number of teeth z	Length (mm)
26	260	110	1100
53	530	121	1210
63	630	124	1240
66	660	125	1250
72	720	132	1320
81	810	135	1350
84	840	142	1420
92	920	161	1610
98	980	188	1880

AT 5



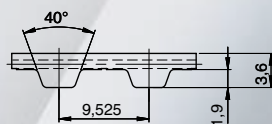
Number of teeth Z	Length (mm)	Number of teeth Z	Length (mm)
45	225	122	610
51	255	132	660
56	280	142	710
60	300	144	720
68	340	150	750
75	375	156	780
78	390	165	825
84	420	172	860
90	450	195	975
91	455	210	1050
100	500	225	1125
109	545	257	1285
120	600	300	1500

XL



Number of teeth Z	Length (in)	Number of teeth Z	Length (in)
30	6	85	17
35	7	90	18
40	8	95	19
45	9	100	20
50	10	105	21
55	11	110	22
60	12	115	23
65	13	120	24
70	14		
75	15		
80	16		

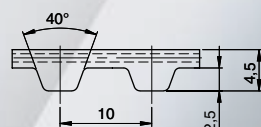
L



Number of teeth Z	Length (in)	Number of teeth Z	Length (in)
40	15	80	30
46	17,3	92	34,5
60	22,5	98	36,7
64	24	104	39
68	25,5	112	42
72	27	136	51
76	28,5	144	54



VACUUM - T10



Number of teeth Z	Length (mm)
63	630
80	800
92	920



iSync® Belts
iSYNC® BELTS

Special Belts

SPECIAL BELTS



ELATECH®'s wide range of different backings can be grouped into four main categories: Cellular, PVC & PU, Rubber and Special.

Each different category provides special features and top quality performance and endurance making the various backings especially suitable for specific applications. These features include different degrees of hardness, cellular, fabric, felt or solid material compounds, different levels of grip, FDA-compliant materials, antistatic materials, different resistance to oils and fats, and different resistance to abrasion, tear and wear.

Such variety, combined with top quality manufacturing systems and techniques including ELATECH®'s EMF mechanical fastening system and the application of stainless steel or zinc-coated false teeth as well as different flights and cleats, provides the best and the most reliable solution for specific applications in the most diversified fields of industry.

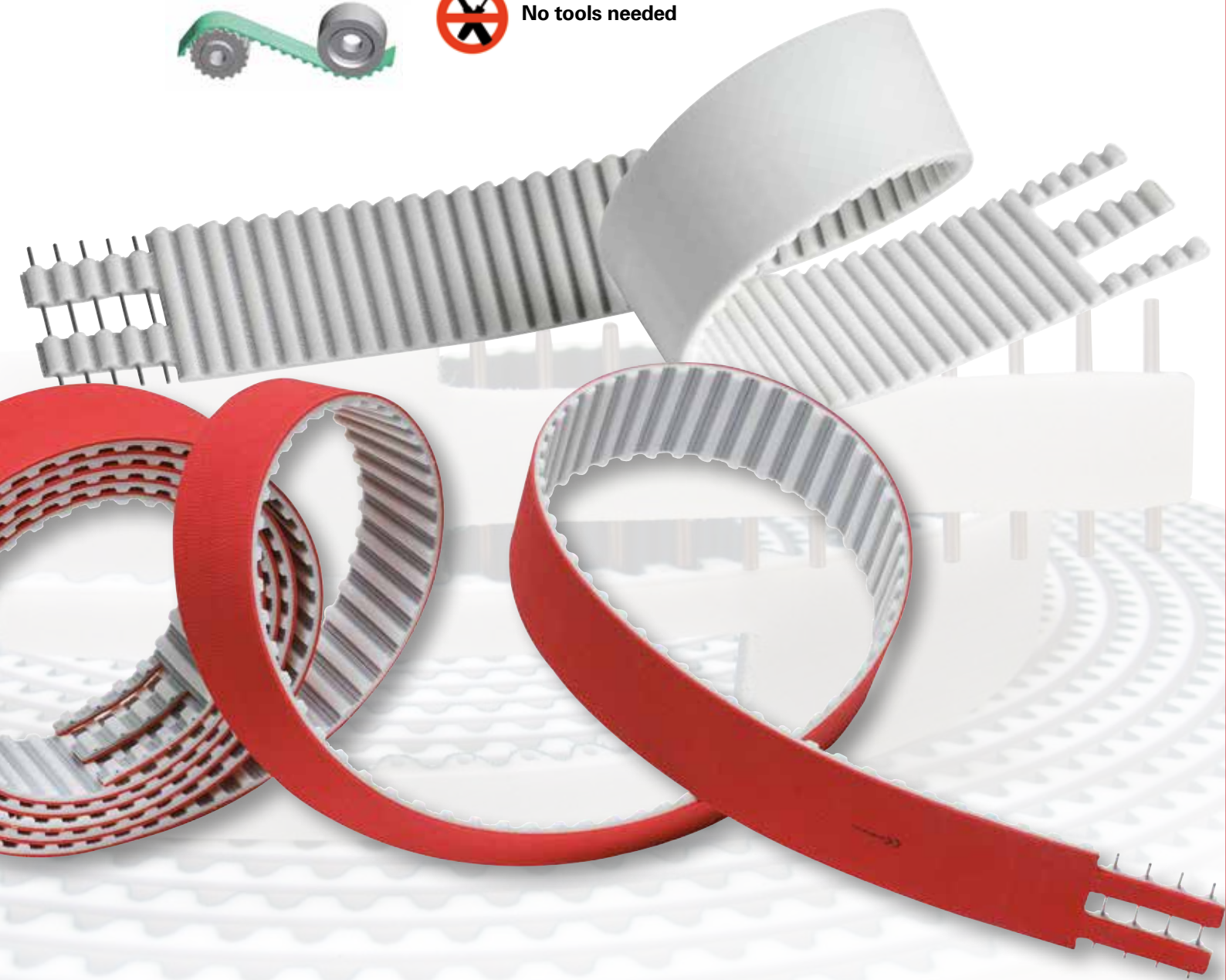
Water jet cutting facility and other state-of-the-art machinery and techniques enable extremely precise machining and finishing operations within the strictest tolerance requirements, resulting in the absolute top quality, reliability and perfection that make ELATECH® Polyurethane belts renowned all over the world.



ELATECH®'s EMF mechanical fastening system is the best and the most cost-effective solution for mounting and replacing timing belts in complex industrial machines or conveying lines. Thanks to its simple and fast assembly procedure, EMF provides considerable time saving and a safe and reliable alternative to traditionally welded belts. Available on all pitches in standard or special configuration, EMF maintains the same minimum pulley requirements as welded belts and can operate both with direct and back bend idlers. It is suitable for belts with special backings, as well as for belts with profiles.



No tools needed





EFT False Tooth System is ELATECH®'s mechanical profile application specially designed for fastening cleats that cannot be welded onto polyurethane timing belts. Zinc-coated or stainless steel teeth are available, either with total tooth or with embedded tooth design. In total tooth design each EFT replaces the whole tooth of the belt, while the embedded design prevents any metal-to-metal contact, ensuring more silent operation. EFTs are available for AT10, AT20, H and XH pitches on every type of belts (open ended, welded or truly endless) with any type of cords as well as with PAZ, PAR or tracking guides.

EFTs provide many advantages, such as:

- They allow the application of profiles made of different materials, from plastic to wood and metal
- They can hold safely heavy and big profiles
- They offer great flexibility, allowing the quick replacement of different types of profiles on the same belt
- They provide a cost-effective solution because they allow the replacement of single damaged or worn profiles without the need to buy a complete new belt
- They comply with FDA requirements, therefore they can be used in food and pharmaceutical applications

Special Belts

SPECIAL BELTS





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