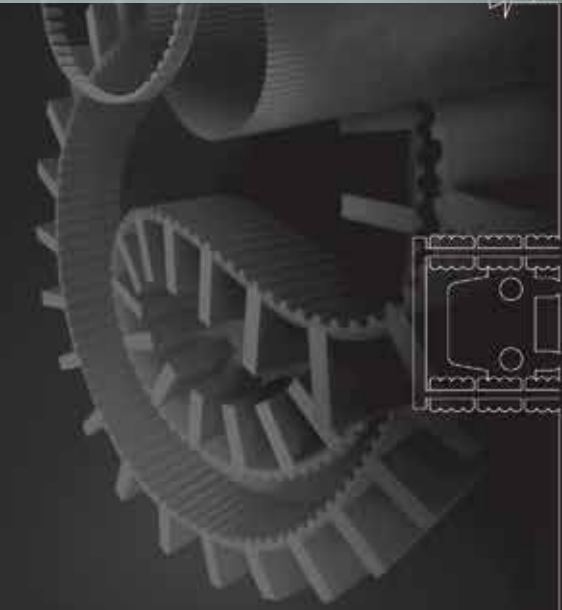




# Polyurethane **BELTS**



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

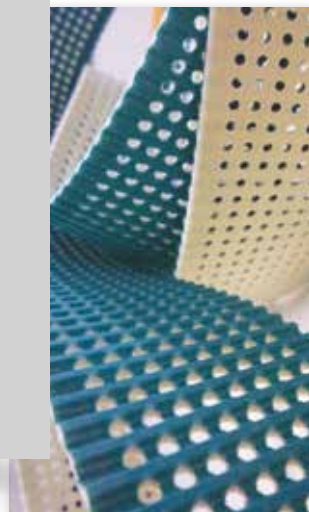
In ELATECH® the term "quality" is not only limited to the product. We offer professional and competent consulting service with fast and reliable deliveries. The certification of our quality system confirms the quality consciousness of our Company and of all our employees. Our management system is certified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



# Products

PRODUCTS

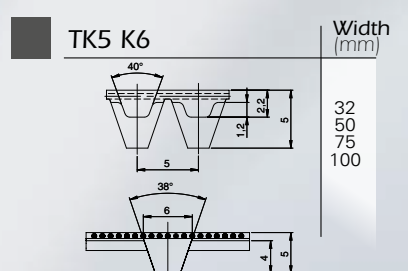
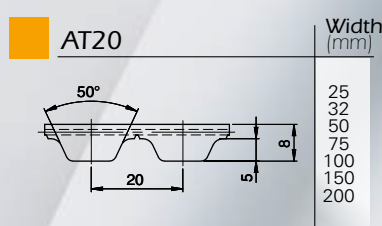
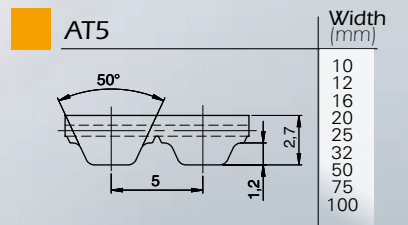
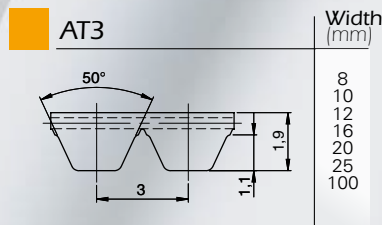
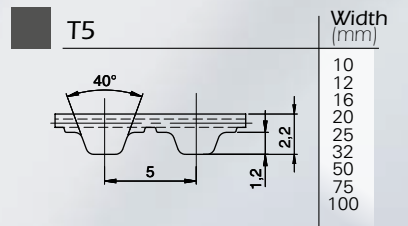
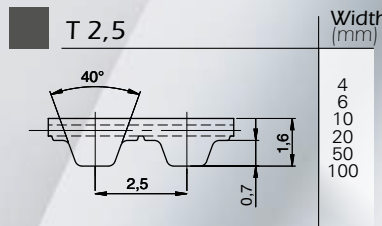
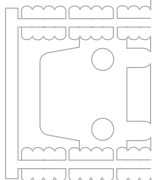
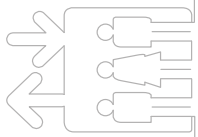
ELATECH® provides the most extensive offer available on the market ranging from long length open end rolls, welded belts, SYNCRO-MAX® extra wide belts, ELA-flex SD® truly endless belts and iSync® sleeves. Furthermore, the product range is completed by a wide choice of mechanical joints, false teeth,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



# Elatech M

## ELATECH M OPEN END

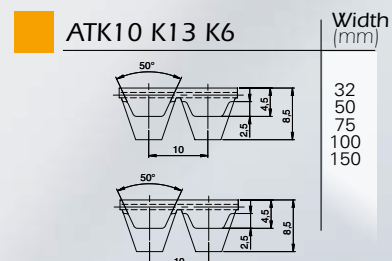
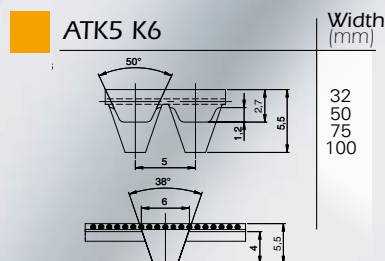
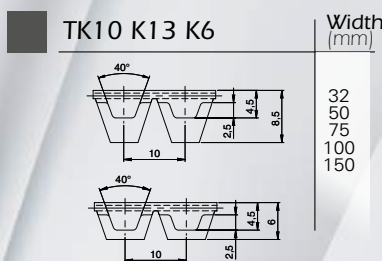
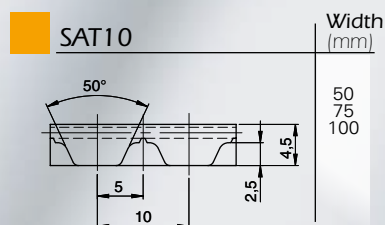
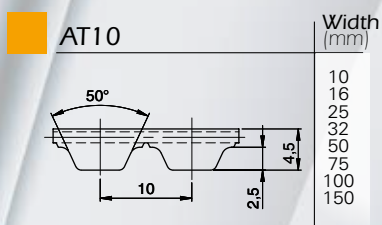
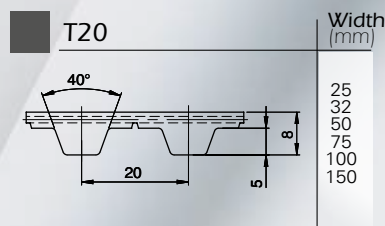
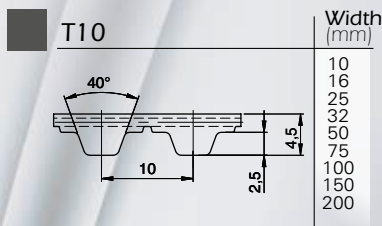
### Open end

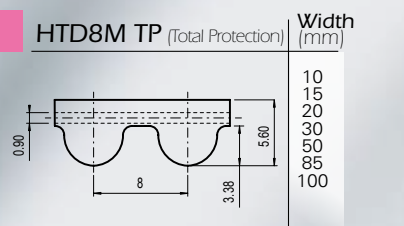
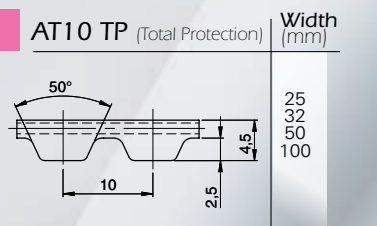
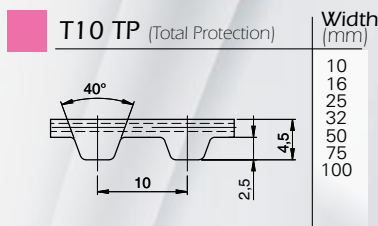
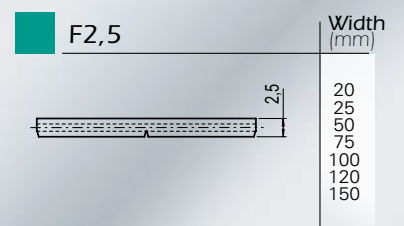
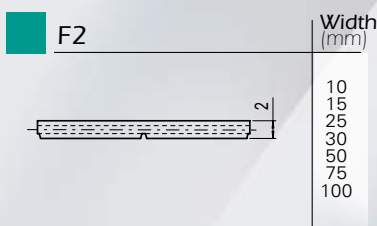
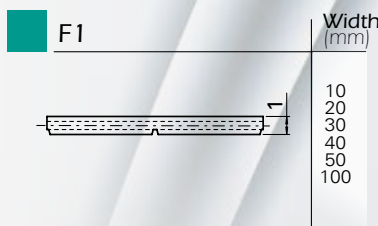
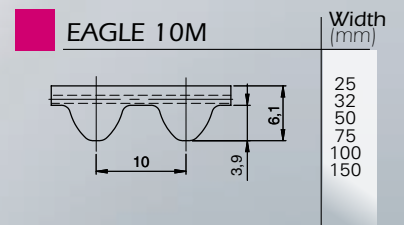
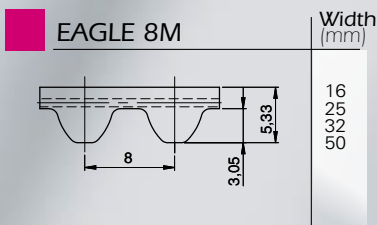
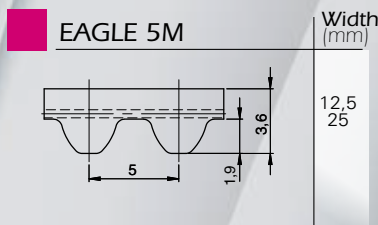
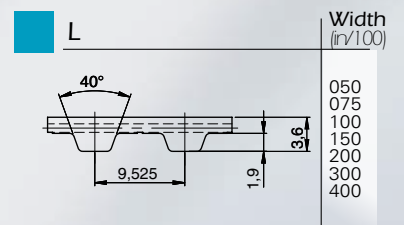
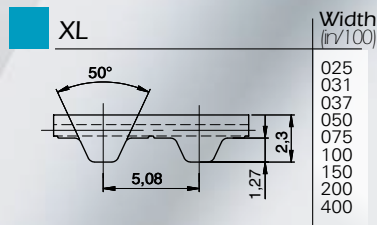
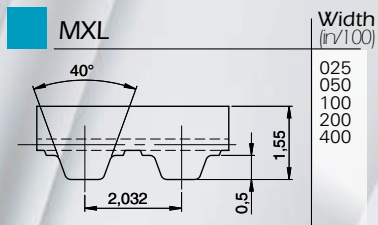
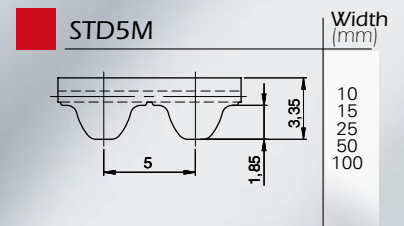
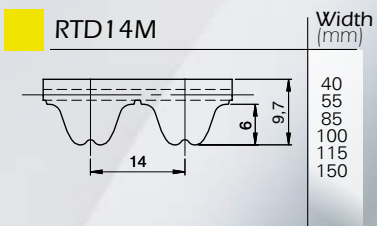
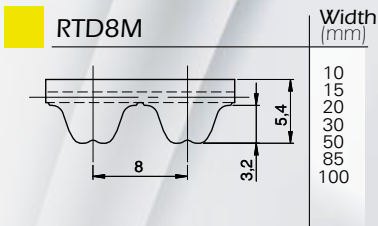
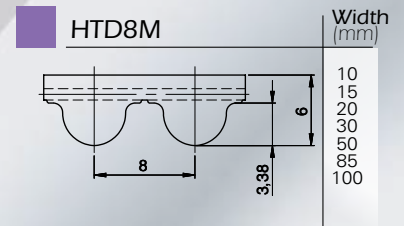
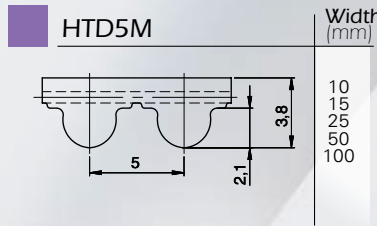
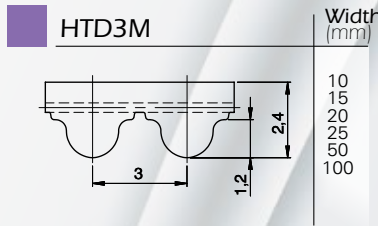


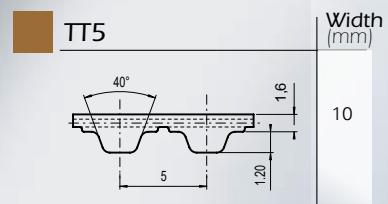
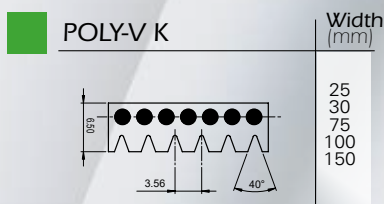
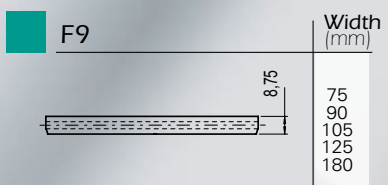
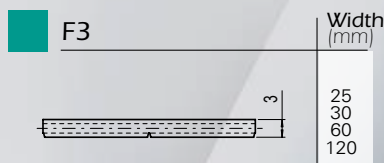
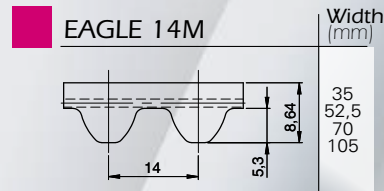
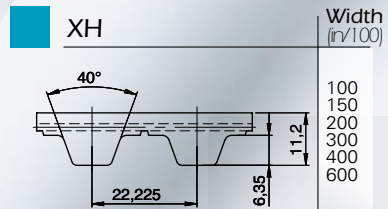
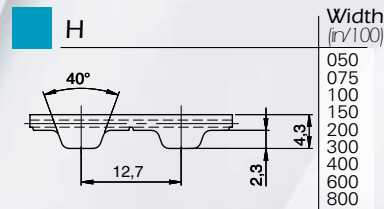
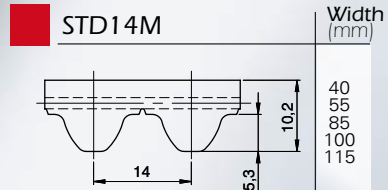
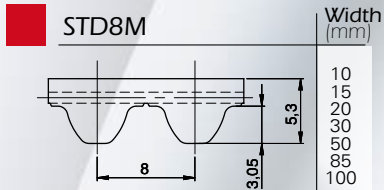
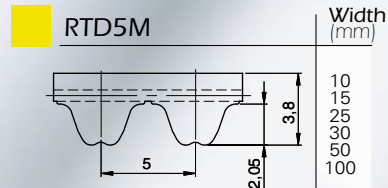
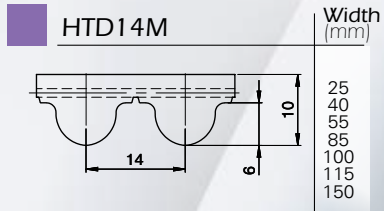
ELATECH® production includes the widest range of high performance profiles in different pitches, allowing to select the best technical solution in every drive application. Additionally, for special applications our engineering department studies and delivers innovative and unique solutions to even the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



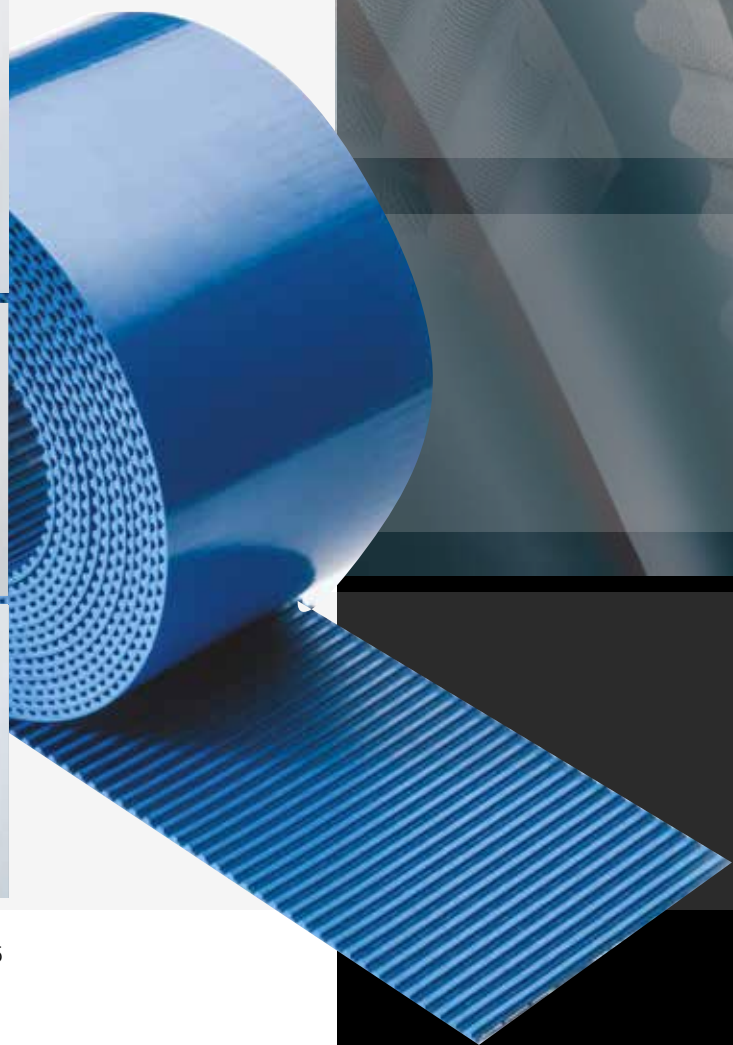




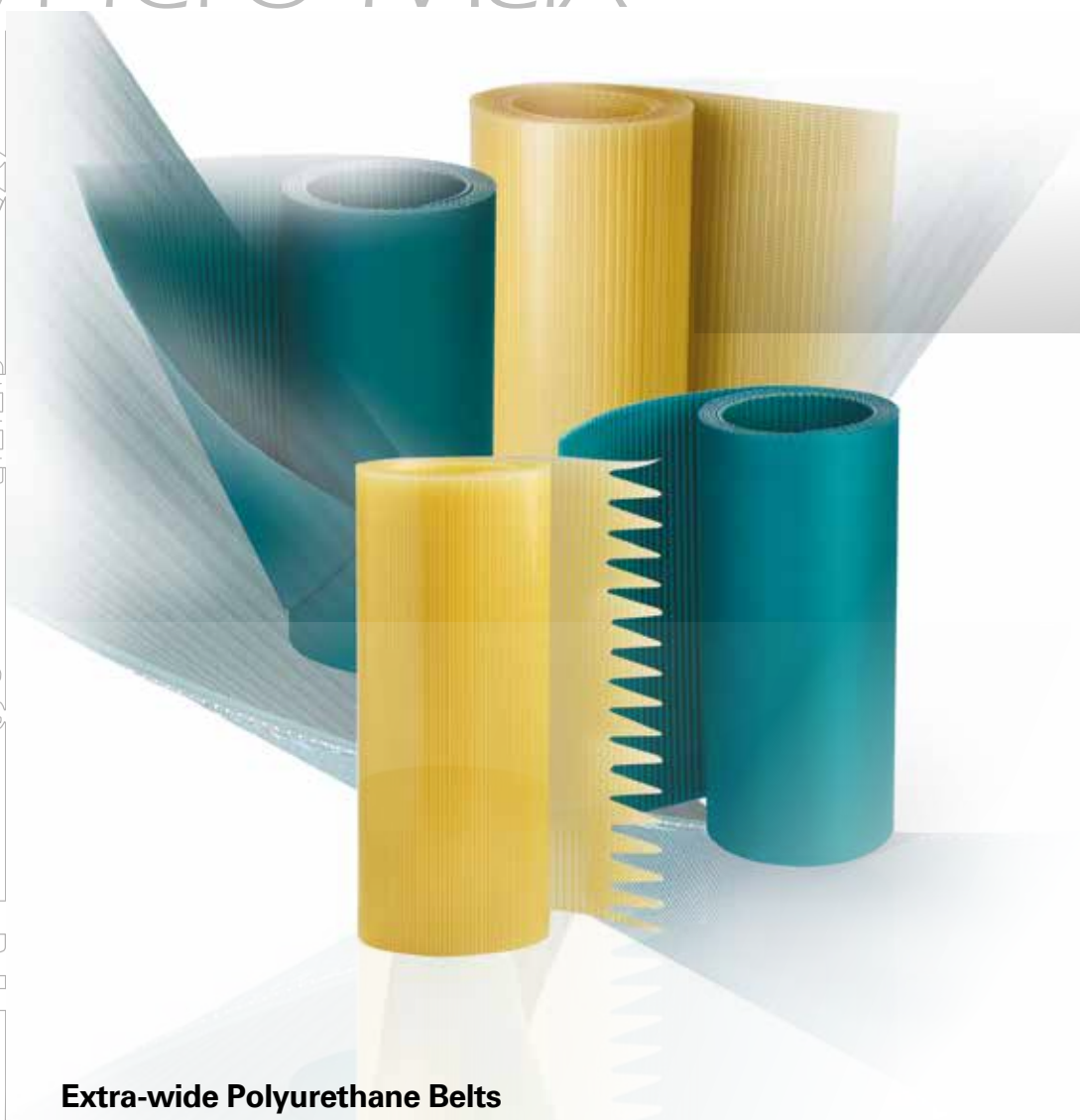
Eagle TOTAL PROTECTION POLY-VK TT5

# Open End

OPEN END



# Elatech Syncro-Max<sup>®</sup>



## Extra-wide Polyurethane Belts

ELATECH<sup>®</sup> SYNCRO-MAX<sup>®</sup> 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

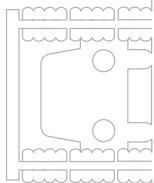
## Typical application

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



# ELA-flex SD<sup>®</sup>

ELA-flex SD<sup>®</sup>



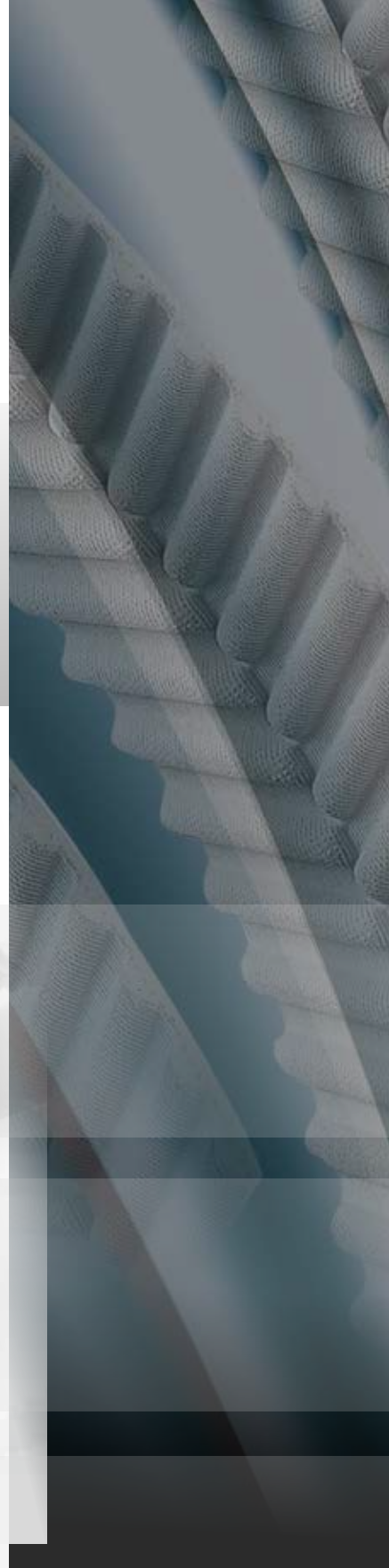
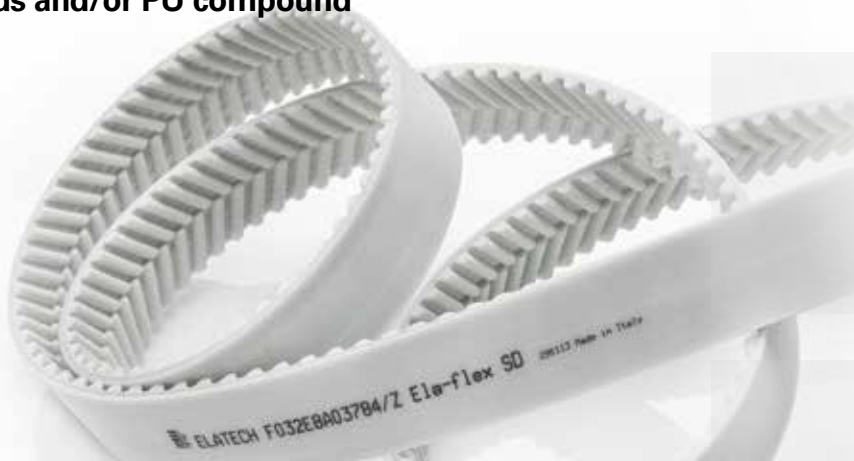
T profile	AT profile	HTD profile
T5 T10 T20	AT5 AT10 AT15 AT20	5M 8M 14M
RTD profile	STD profile	IMPERIAL profile
5M 8M 14M	5M 8M 14M	XL L H XH

**ELA-flex SD<sup>®</sup>** 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.

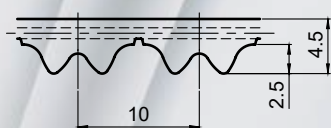
The unique hi-tech manufacturing process designed by our technicians allows the production of every belt length, tooth by tooth from a minimum of 800 mm to a maximum of 24000 mm, thus providing the highest flexibility for any application.

**Available options:**

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



**ATM10**



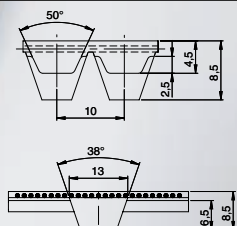
- 16
- 25
- 32
- 50
- 75
- 100

**EAGLE profile**

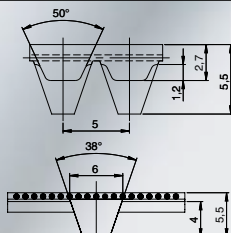


- 5M
- 8M
- 10M
- 14M

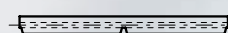
**ATK10 - K6 profiles**



**ATK5 - K6 profiles**



**FLAT**



- F2
- F2.5
- F3

# iSync® Belts

iSYNC® BELTS



## Features

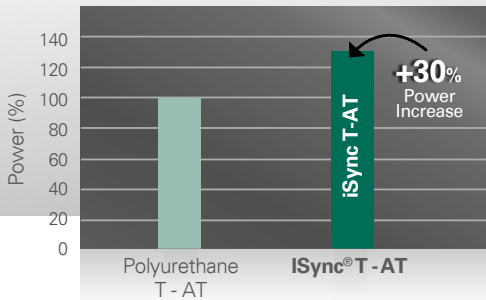
- High power transmission capabilities
  - Maintenance free
  - Superior length stability
- Very high chemical resistance and particularly to oils, greases and gasoline
- Superior abrasion resistance
  - High quality polyurethane designed specifically for timing belt applications
  - Available with either 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	<b>120</b>	92	<b>230</b>	132	<b>330</b>	260	<b>650</b>
		58	<b>145</b>	98	<b>245</b>	137	<b>342,5</b>	312	<b>780</b>
		64	<b>160</b>	106	<b>265</b>	152	<b>380</b>	366	<b>915</b>
		71	<b>177,5</b>	111	<b>277,5</b>	168	<b>420</b>	380	<b>950</b>
		72	<b>180</b>	114	<b>285</b>	192	<b>480</b>	590	<b>1475</b>
		74	<b>185</b>	116	<b>290</b>	200	<b>500</b>		
		80	<b>200</b>	122	<b>305</b>	216	<b>540</b>		
		84	<b>210</b>	127	<b>317,5</b>	240	<b>600</b>		

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)

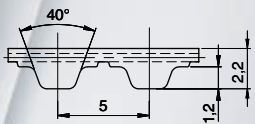
The following profiles and executions are manufactured on request:

- **MXL, HTD5M**

## Standard iSync® sleeve belt sizes

SINGLE TOOTHING

**T 5**



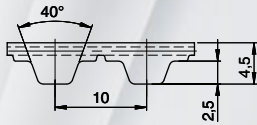
Number of teeth Z	Length mm	Number of teeth Z	Length mm	Number of teeth Z	Length mm	Number of teeth Z	Length mm	Number of teeth Z	Length mm
33	165	64	320	91	455	130	650	200	1000
36	180	65	325	92	460	132	660	215	1075
37	185	66	330	95	475	135	675	220	1100
40	200	68	340	96	480	138	690	223	1115
42	210	70	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

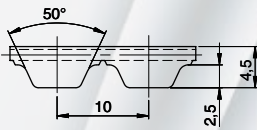
SINGLE TOOTHING

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

### AT 10

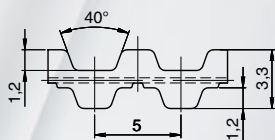


Number of teeth z	Length (mm)	Number of teeth z	Length (mm)	Number of teeth z	Length (mm)	Number of teeth z	Length (mm)
50	<b>500</b>	81	<b>810</b>	110	<b>1100</b>	140	<b>1400</b>
53	<b>530</b>	84	<b>840</b>	115	<b>1150</b>	142	<b>1420</b>
56	<b>560</b>	88	<b>880</b>	120	<b>1200</b>	148	<b>1480</b>
58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

## Standard iSync® sleeve belt sizes

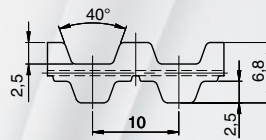
DUAL TOOTHING

### DT 5



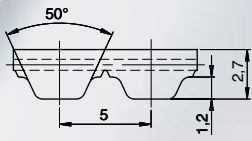
Number of teeth z	Length (mm)
82	<b>410</b>
92	<b>460</b>
118	<b>590</b>
124	<b>620</b>
150	<b>750</b>
163	<b>815</b>
172	<b>860</b>
188	<b>940</b>
220	<b>1100</b>

### DT10



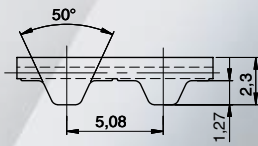
Number of teeth z	Length (mm)	Number of teeth z	Length (mm)
26	<b>260</b>	110	<b>1100</b>
53	<b>530</b>	121	<b>1210</b>
63	<b>630</b>	124	<b>1240</b>
66	<b>660</b>	125	<b>1250</b>
72	<b>720</b>	132	<b>1320</b>
81	<b>810</b>	135	<b>1350</b>
84	<b>840</b>	142	<b>1420</b>
92	<b>920</b>	161	<b>1610</b>
98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

### AT 5



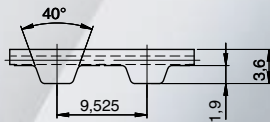
Number of teeth z	Length (mm)	Number of teeth z	Length (mm)
45	<b>225</b>	122	<b>610</b>
51	<b>255</b>	132	<b>660</b>
56	<b>280</b>	142	<b>710</b>
60	<b>300</b>	144	<b>720</b>
68	<b>340</b>	150	<b>750</b>
75	<b>375</b>	156	<b>780</b>
78	<b>390</b>	165	<b>825</b>
84	<b>420</b>	172	<b>860</b>
90	<b>450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

### XL



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

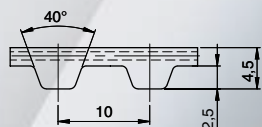
### L



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



### VACUUM - T10



Number of teeth z	Length (mm)
63	<b>630</b>
80	<b>800</b>
92	<b>920</b>



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.

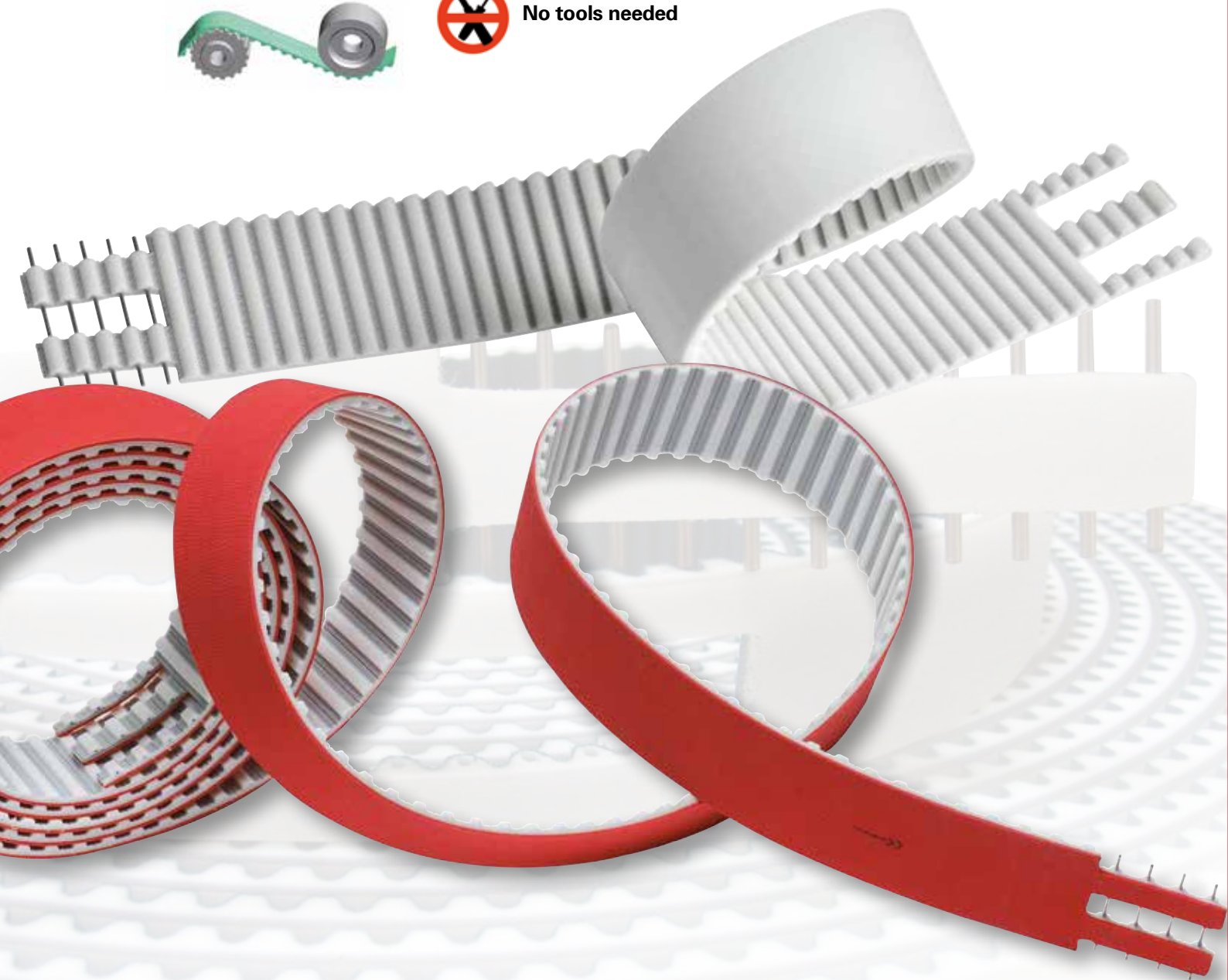
Water jet cutting facility and other state-of-the-art machinery and techniques enable extremely precise machining and finishing operations within the strictest tolerance requirements, resulting in the absolute top quality, reliability and perfection that make ELATECH® Polyurethane belts renowned all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

