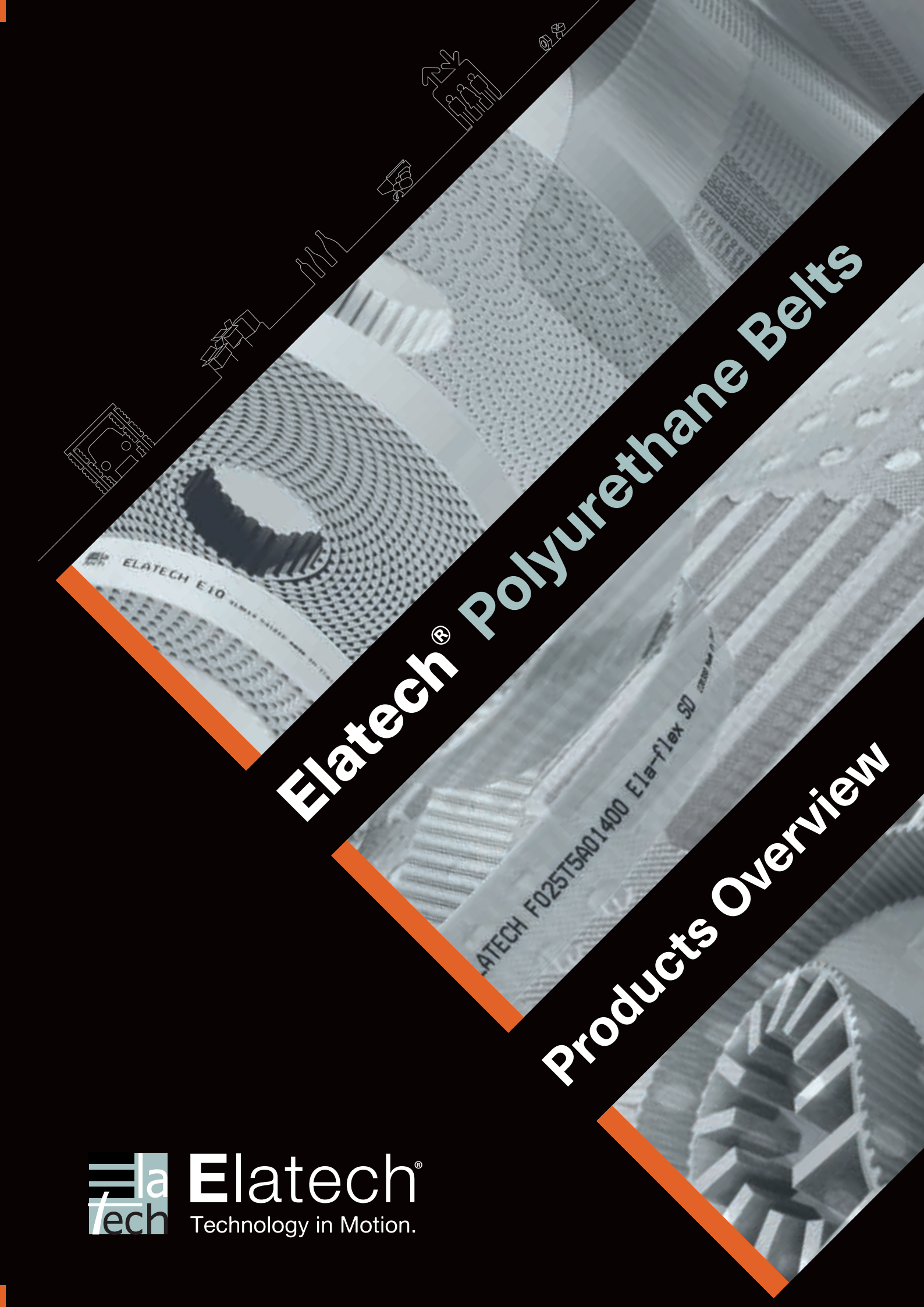


Elatech® Polyurethane Belts

Products Overview

Elatech®
Technology in Motion.



In a small valley surrounded by green, just a few minutes from Bergamo, but far from the crowded and chaotic modern world, an idea comes to life.

Thanks to ingenuity, knowledge and hard work of the local people, in 2003 **Elatech** was born.

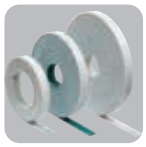
Innovation, training and investments in this territory forged the identity of a family business, nowadays one of most representative of the industry worldwide.

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16 iSync®



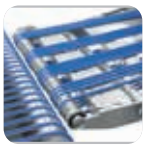
22 iFood Belts



24 ELAClean®



26 Elastic Belts



28 Round Belts



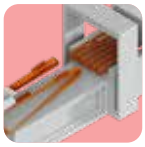
32 Elatech® EMF



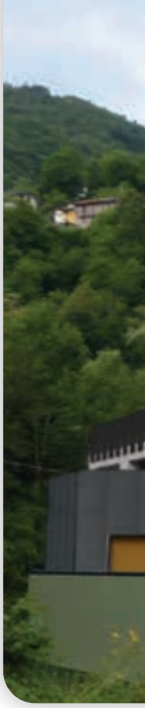
34 Elatech® EFT



36 Elatech® ATF



38 Application fields



The Group

SCAGLIA GROUP as we know it today was **founded in 1838**, when the manufacturing of wooden bobbins for the textile industry began. From these distant beginnings, the group has grown into diverse companies, offering a wide range of products and solutions. The textile industry is continuously served through **SCAGLIA S.r.l.**, now using modern materials such as polymers and light alloys.

Power transmission components and motion control solutions are provided by **SIT S.p.A.** and **SIT Automation**, while linear motion components are provided by **SIT Linear Motion**.
ELATECH S.r.l. is responsible for the design and manufacture of polyurethane belts.
In 2004 materials handling and industrial manipulator businesses were brought together under the **INDEVA** brand.

Across the Group — still family-owned by the Scaglias today — the focus is still on **continuous innovation and development**, applying leading-edge technology in materials research, mechanics, pneumatics and electronics. With a team of **1.000 employees** and a broad network of subsidiaries and distributors across Europe, the Americas, Asia and India, our customers are provided with **first-class support and service worldwide.**

sit DRIVE SOLUTIONS

Elatech Technology in Motion.

Scaglia 1838

INDEVA INTELLIGENT DEVICES FOR HANDLING

SIT Automation

sit LINEAR MOTION





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 technologies, efficient testing and control equipment and a qualified team of and engineers, allow **ELATECH**® to offer superior products and a highly flexible service.
ELATECH® is the ideal partner for developing solutions to both simple and complex applications in linear motion, precise and synchronized conveying, lifting, and power transmission.

OUR MISSION

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

RESEARCH & DEVELOPMENT

We strongly believe that innovation is the key to our customers' success.
We are fully committed to quality and close cooperation with our customers, to solve all the problems in the most advanced and cost-effective way. Our skilled technicians, together with our modern test laboratory, enable us to offer the most effective solutions for all conveying, lifting and power transmission applications.

TOTAL QUALITY

At **ELATECH**® the term "quality" goes beyond the product itself. 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**.

GLOBAL PRESENCE

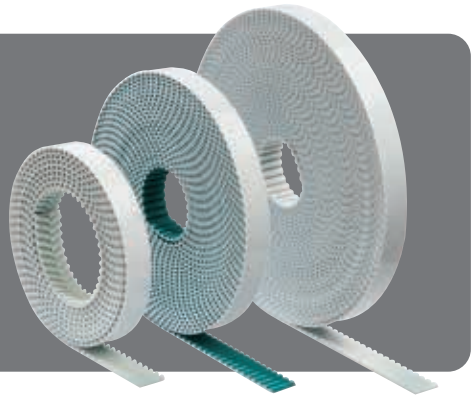
With **8** sister companies in **Europe, North America, Asia** and more than 150 qualified distributors around the world, **ELATECH**® guarantees a superior technical and delivery service worldwide.

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.

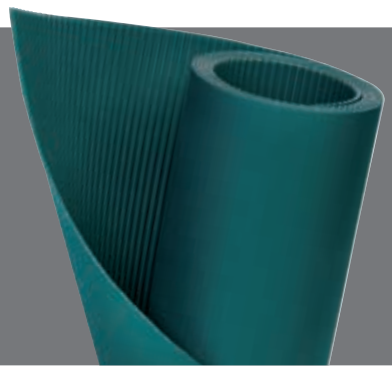
ELATECH® OPEN END

ELATECH® M belts are produced in rolls and are available in any desired length. A wide range of pitches and profiles are available, including double toothing.
ELATECH® V belts are welded belts designed specifically for linear conveying.



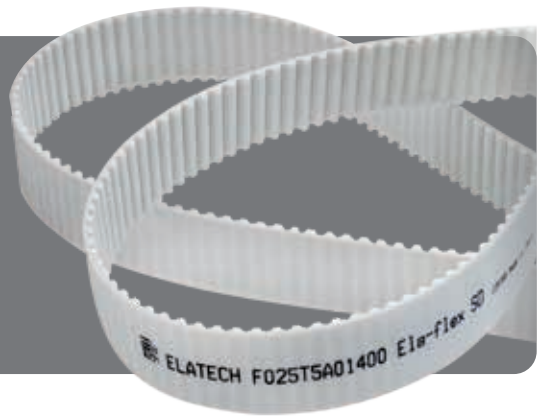
SYNCRO MAX®

ELATECH® SYNCRO MAX® Extra Wide polyurethane belts extend the benefits of synchronous toothed belts to larger surfaces and to typical conveyor belts and modular handling system applications.



ELA-Flex SD®

ELA-flex SD® drive belts feature continuous cords, which makes them ideal for power transmission.
Available in a wide range of profiles and pitches and in any tooth-to-tooth length **from 800 to 24.000 mm**





ELATECH® iSync®

Made from a special polyurethane compound and featuring high-strength steel cords, **ELATECH® iSync®** belts are the result of a unique, sophisticated technology that makes them capable of transmitting 30% more than conventional T and AT profiles.



Special

Thanks to the physical and mechanical properties of backings, a wide range of goods can be transported on the belt surface. Thanks to this customizations, **ELATECH®** special products meet any synchronized conveying need.

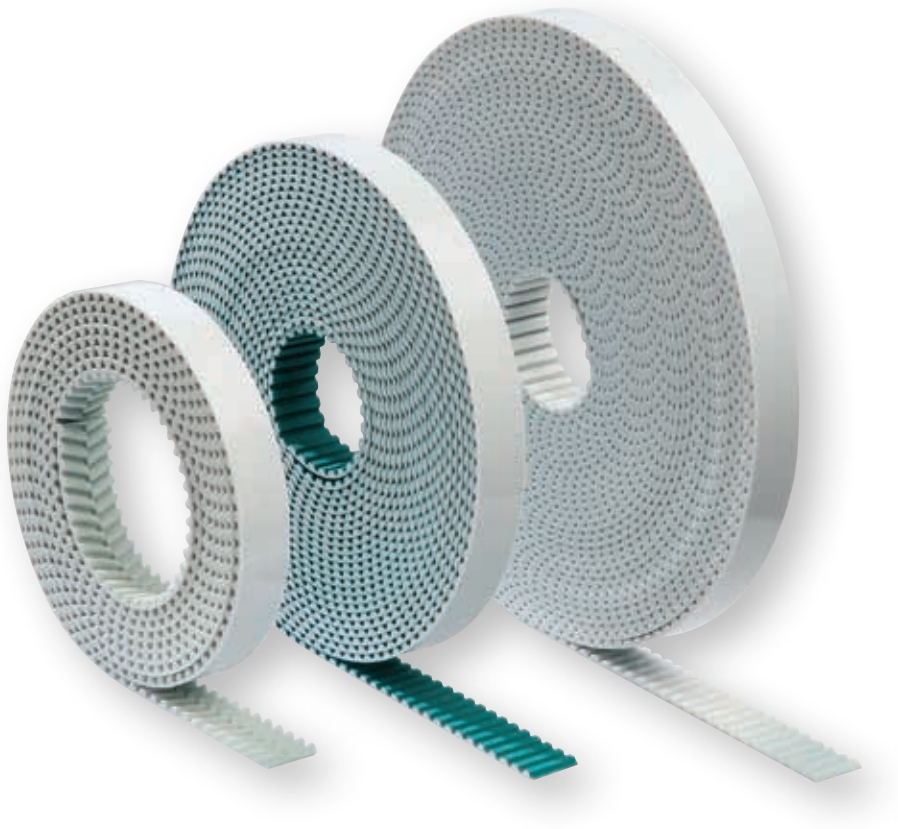
Backings:
Fabric
Foam
PU
PVC
Rubber
Silicone



Typical application fields

Logistics
Automotive
Industrial Lift
Home Lift
Garage Doors
Fitness
Curtains
Food Processing
Ceramic
Glass
Paper
Wood
Textile
and more...

Elatech® M & V



ELATECH® production includes the widest range of high-performance profiles in different pitches, allowing to select the best technical solution in every drive application.

ELATECH® M - Open End, comply with every need for the designers and engineers in linear motion, power transmission, lifting and conveying applications where precise synchronisation is needed.

Our timing belts are manufactured with the body in thermoplastic polyurethane with excellent wear resistance and with high tensile strength steel cords. A special polyamide fabric on the tooth (on request) reduces the coefficient of friction, improves the tooth engagement and reduces noise.

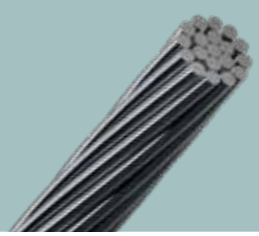
Additionally, for special applications, our engineering department studies and delivers innovative and unique solutions to even the most complex requirements.

In order to maximize the application of **ELATECH®** timing belts, construction with special cords is available on request:

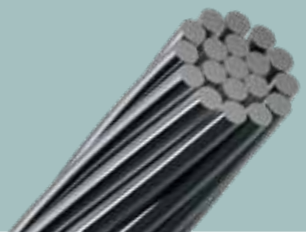
STANDARD CORD



HFE CORD



HPL CORD





HPL high performance cords: the cord cross section is increased compared with standard. This results in a lower belt elongation and more precise positioning accuracy.

HFE high flexibility cords: the cord cross section is spread on a higher number of single filaments. This results in a lower bending stress and therefore in a higher resistance at reverse bending of the cords. They allow using pulleys and idlers up to 30% smaller in diameter compared to standard.

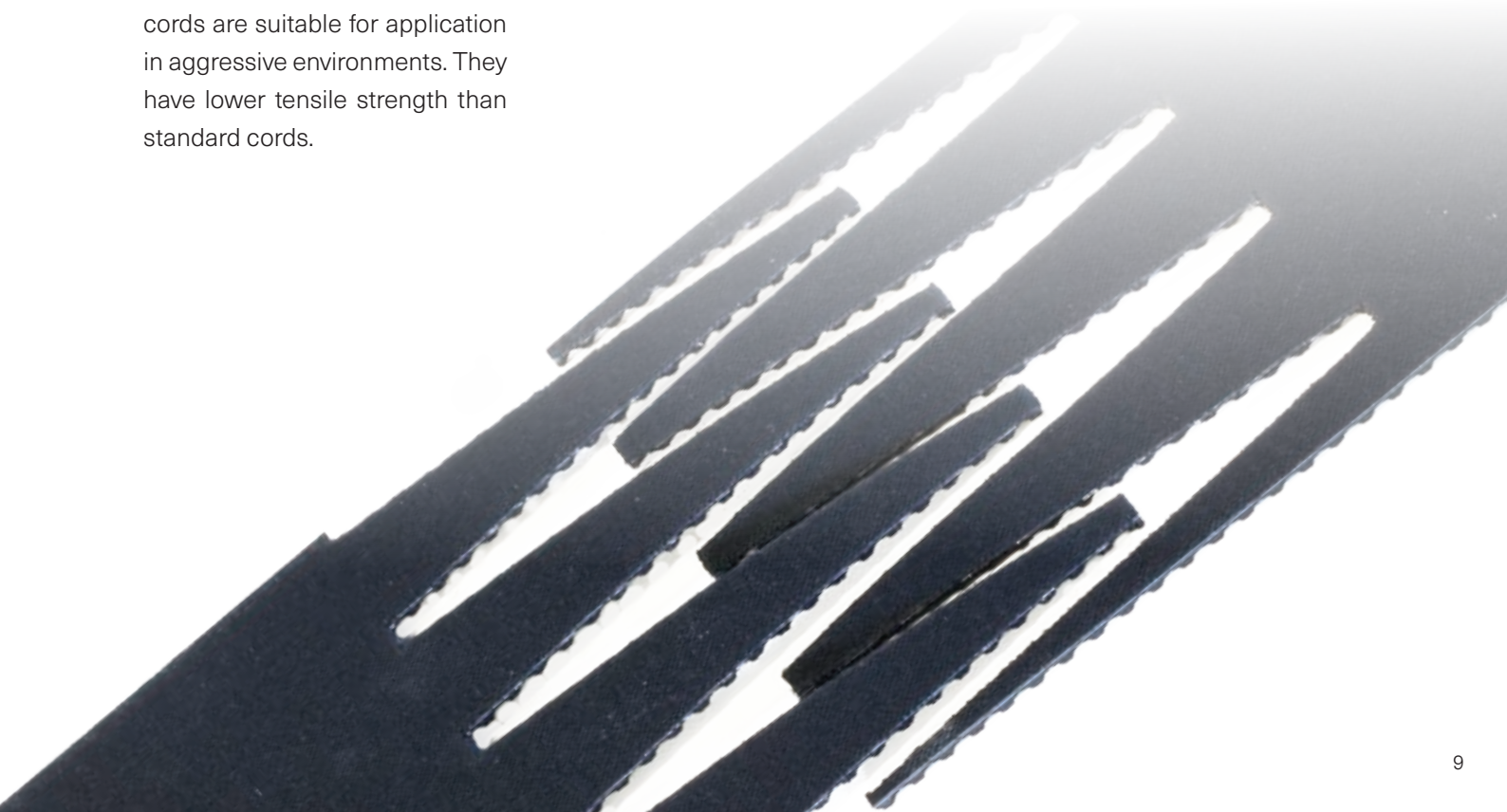
STAINLESS STEEL (INOX) cords are suitable for application in aggressive environments. They have lower tensile strength than standard cords.

ARAMID: increases belt flexibility and decreases belt weight.

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

- Antistatic properties
- Special colour
- Double sided execution
- Total protection execution
- High temperature resistant PU
- FDA-compliant PU and cords

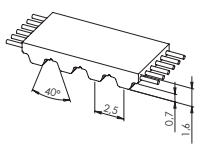
ELATECH® **V** - Welded, they are joined belts manufactured from open end belts.
Thanks to the specific manufacturing process, any length may be obtained tooth by tooth. Free combinations with special backing materials and welded profiles, make **ELATECH**® **V** belts ideal in synchronized conveying and highly specialised applications.



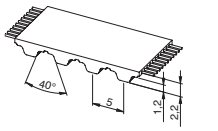
ELATECH OPEN END M & V - FAMILY RANGE OVERVIEW

TRAPEZOIDAL T - METRIC PROFILE

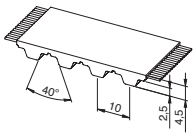
T 2,5



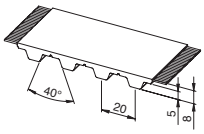
T 5



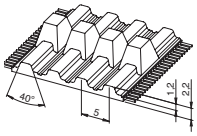
T 10



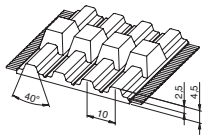
T 20



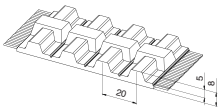
TK5 K6



TK10 K6 K13

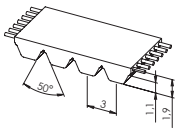


TK20 K13

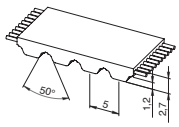


TRAPEZOIDAL AT - METRIC PROFILE

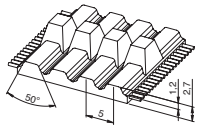
AT3



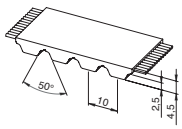
AT5



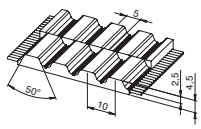
ATK5 K6



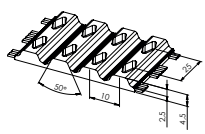
AT10



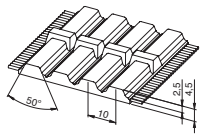
SAT10



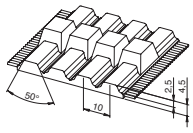
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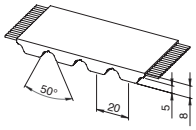
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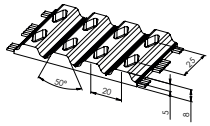
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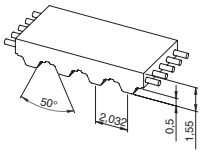


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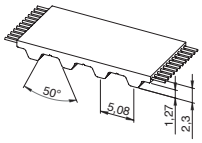


TRAPEZOIDAL IMPERIAL PROFILE

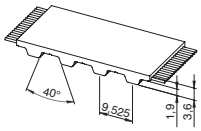
MXL



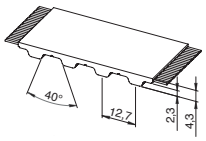
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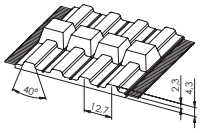
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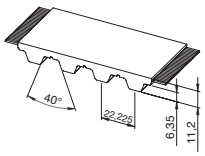
H



H K13

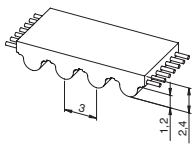


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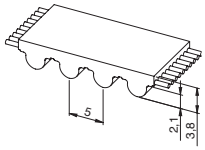


HIGH TORQUE DRIVE PROFILE

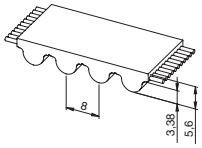
HTD3M



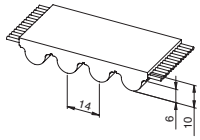
HTD5M



HTD8M

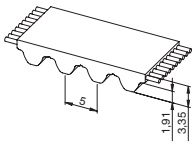


HTD14M

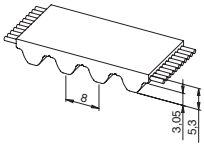


SUPER TORQUE DRIVE PROFILE

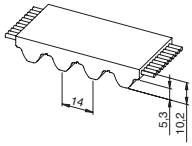
STD5M



STD8M

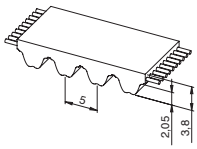


STD14M

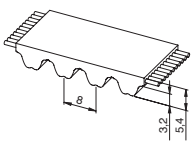


PARABOLIC PROFILE

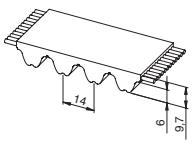
RPD5M



RPD8M

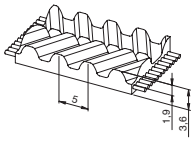


RPD14M

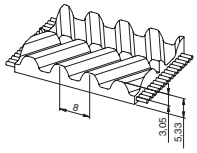


HELICAL OFFSET TOOTH PROFILE

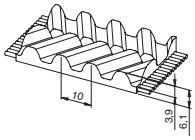
EAGLE 5M



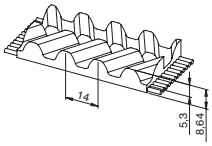
EAGLE 8M



EAGLE 10M



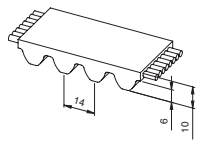
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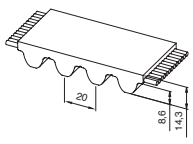
T
AT
IMPERIAL
HTD
STD
RPD
EAGLE
PG
FLAT
TOTAL PROTECTION
TT5
SPECIAL

PG ROUNDED PROFILE

PG14M

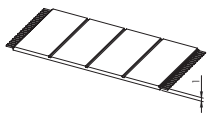


PG20M

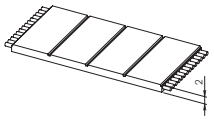


FLAT TOOTH PROFILE

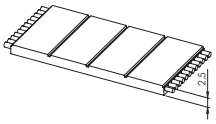
F1



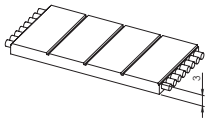
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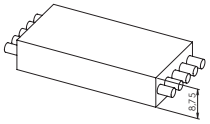
F2.5



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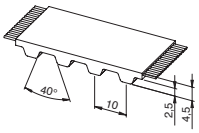


F8.75

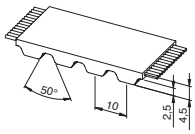


TOTAL PROTECTION TOOTH PROFILE

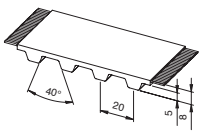
T10 TP Total Protection



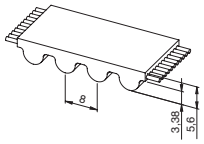
AT10 TP Total Protection



T20 TP Total Protection

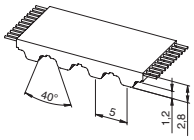


HTD8M TP Total Protection

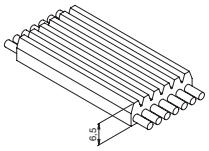


SPECIAL PROFILE

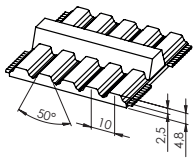
TT5



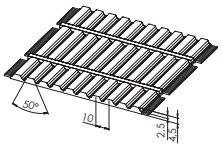
POLY-V K



ATK10P K13 Solid



ATKK10

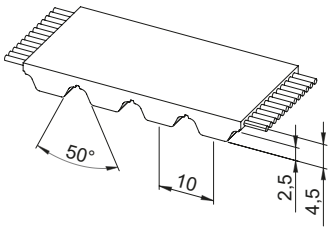


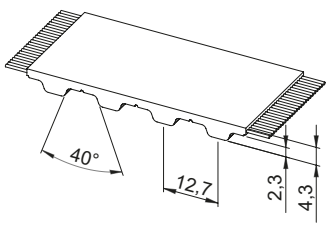
Elatech® Syncro Max®



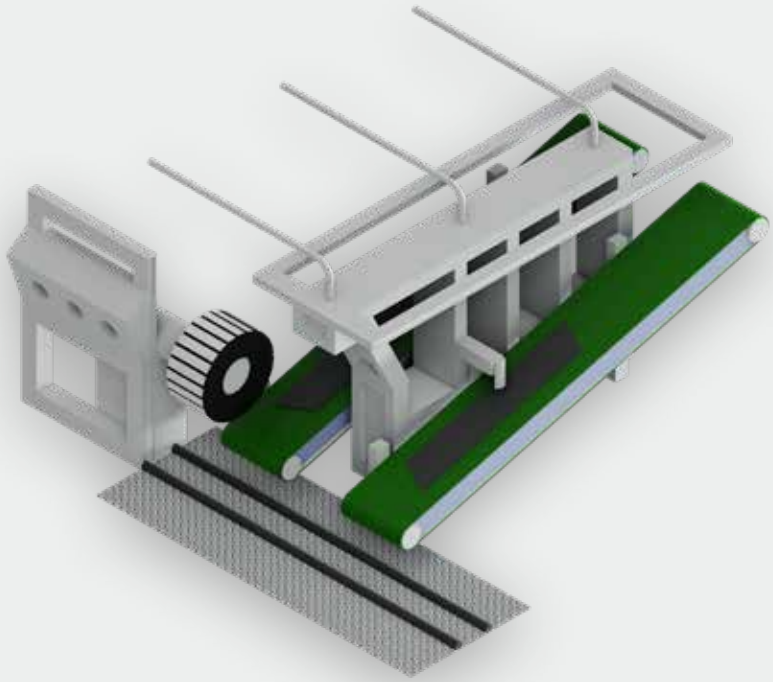
Extra-wide Polyurethane Belts

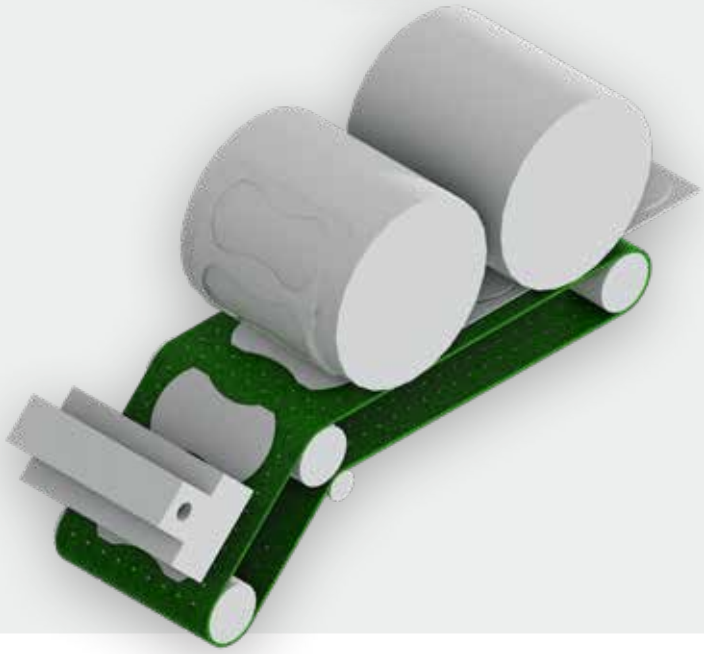
ELATECH® SYNCRO MAX® Extra-wide Polyurethane Belts extend the advantages of synchronous timing belts to wider surfaces and to the typical applications of flat and modular conveyor belts.

T 10	Width (mm)
	250
	300
	350
	400
	450
	500 - 510

H	Width (in)
	10
	12
	14
	16
	18
	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

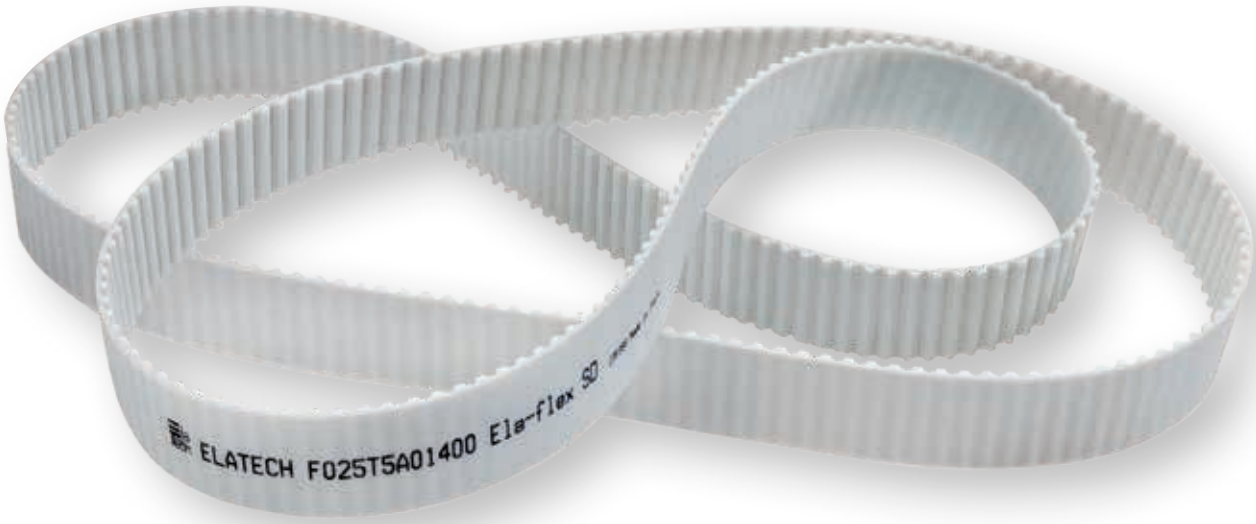
Advantages

- 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®

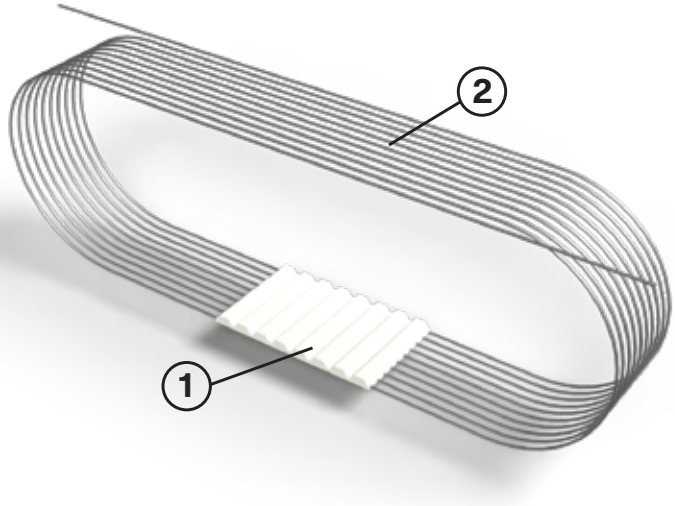


ELA-flex SD® timing belts are manufactured with truly endless high tensile tension cords and high wear resistant polyurethane body.
Having no splices or welding, the belts have no weakness points across the section. They are therefore ideal for power transmission applications and high load conveying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

The unique 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 tooth execution over 1500 mm
- PAZ fabric included over 900 mm for many profiles
- Special cords and/or PU compound



1. Body made with thermoplastic polyurethane
2. Truly endless traction element

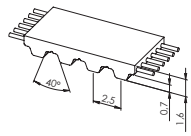
T
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IMPERIAL

HTD
STD
RPD

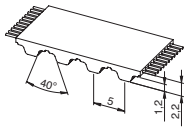
EAGLE
FLAT

TRAPEZOIDAL METRIC PROFILE

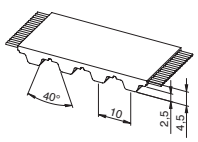
T 2.5



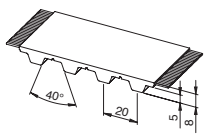
T 5



T 10

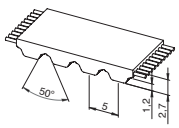


T 20

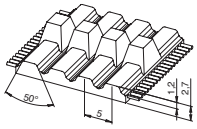


TRAPEZOIDAL METRIC PROFILE

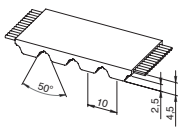
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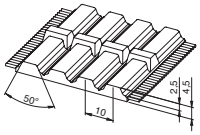
ATK5 K6



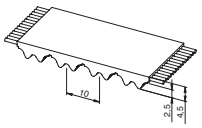
AT10



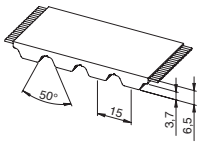
ATK10 K6



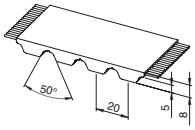
ATM10



AT15

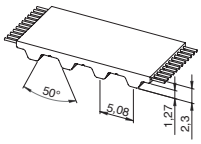


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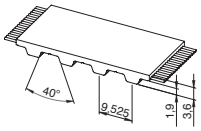


TRAPEZOIDAL IMPERIAL PROFILE

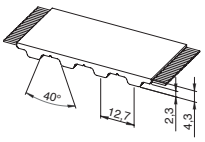
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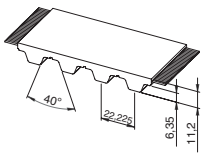
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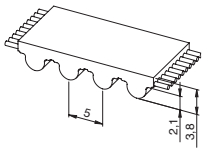


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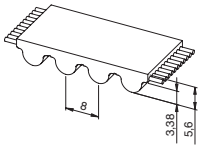


HIGH TORQUE DRIVE PROFILE

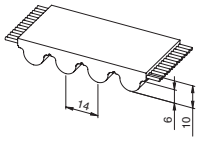
HTD5M



HTD8M

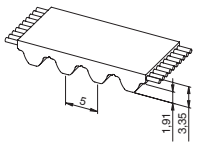


HTD14M

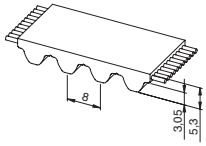


SUPER TORQUE DRIVE PROFILE

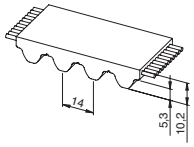
STD5M



STD8M

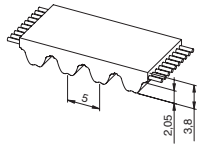


STD14M

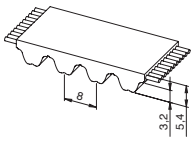


PARABOLIC PROFILE

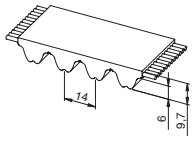
RPD5M



RPD8M

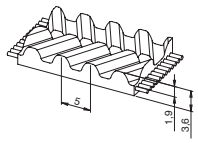


RPD14M

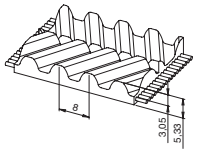


HELICAL OFFSET TOOTH PROFILE

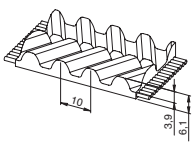
EAGLE 5M



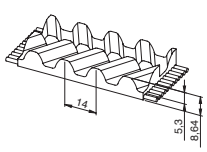
EAGLE 8M



EAGLE 10M

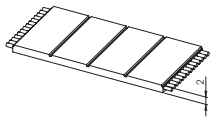


EAGLE 14M

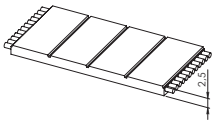


FLAT TOOTH PROFILE

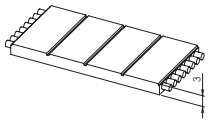
F2



F2.5



F3



iSync® Belts

Features

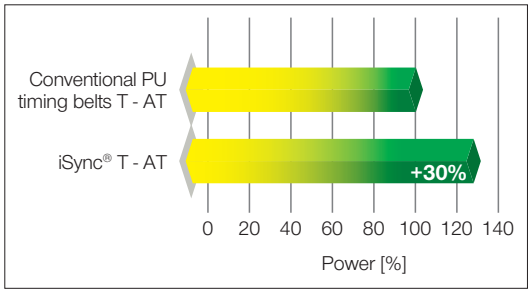
- High power transmission capabilities
- Maintenance free
- Superior length stability
- Very high chemical resistance and particularly to oils, greases and gasoline
- Superior abrasion resistance
- High quality polyurethane designed specifically for timing belt applications
- Available with either steel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

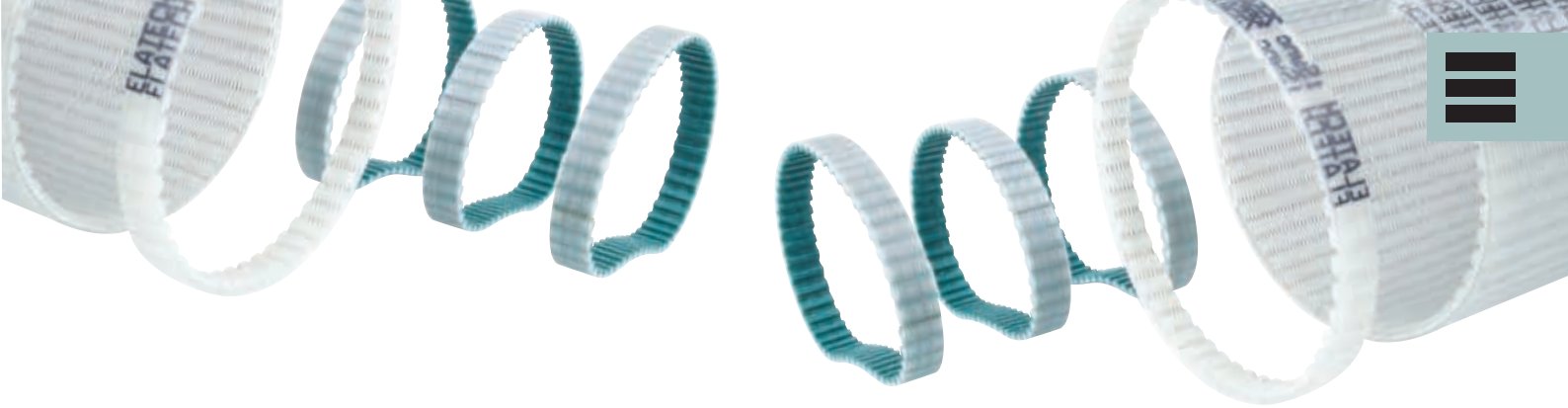
*(on request)



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.





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**

Applications

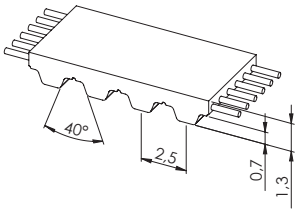
Power transmission drives

- where high precision is needed
- where cleanliness is critical in difficult environment (presence of chemicals)

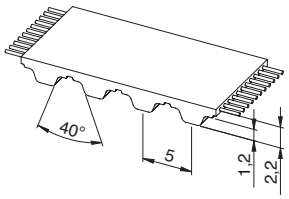
Heavy - duty conveying drives

- with special backing
- with cleats

Standard iSync® sleeve belt sizes - Single toothing

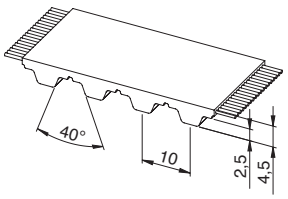


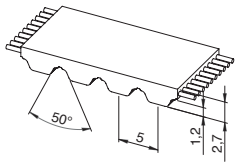
T2,5	Number of teeth z	Length (mm)	Number of teeth z	Length (mm)	Number of teeth z	Length (mm)	Number of teeth z	Length (mm	Number of teeth z	Length (mm
	48	120	84	210	122	305	200	500	380	950
	58	145	92	230	127	317,5	216	540	590	1475
	64	160	98	245	132	330	240	600	-	-
	71	177,5	106	265	137	342,5	248	620	-	-
	72	180	111	277,5	152	380	260	650	-	-
	74	185	114	285	168	420	312	780	-	-
	80	200	116	290	192	480	366	915	-	-

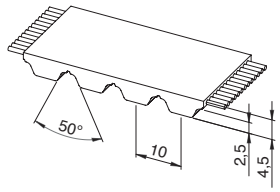


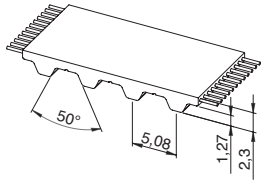
T5	Number of teeth z	Length (mm)	Number of teeth z	Length (mm)	Number of teeth z	Length (mm)	Number of teeth z	Length (mm)	Number of teeth z	Length (mm)
	18	90	64	320	92	460	135	675	223	1115
	33	165	65	325	95	475	138	690	228	1140
	36	180	66	330	96	480	140	700	232	1160
	37	185	68	340	100	500	144	720	240	1200
	40	200	70	350	102	510	145	725	243	1215
	42	210	71	355	105	525	150	750	253	1265
	43	215	72	360	109	545	156	780	255	1275
	44	220	73	365	110	550	160	800	256	1280
	45	225	75	375	112	560	163	815	263	1315
	49	245	78	390	115	575	166	830	270	1350
	50	250	80	400	118	590	168	840	271	1355
	51	255	82	410	120	600	170	850	276	1380
	52	260	84	420	122	610	172	860	280	1400
	54	270	85	425	124	620	180	900	288	1440
	55	275	86	430	125	625	188	940	391	1955
	56	280	88	440	126	630	198	990	-	-
	59	295	89	445	128	640	200	1000	-	-
	60	300	90	450	130	650	215	1075	-	-
	61	305	91	455	132	660	220	1100	-	-

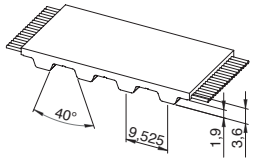
iSync® Belts

T10	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	66	660	95	950	135	1350
	32	320	68	680	96	960	139	1390
	35	350	69	690	97	970	140	1400
	37	370	70	700	98	980	142	1420
	40	400	72	720	100	1000	144	1440
	41	410	73	730	101	1010	145	1450
	44	440	75	750	105	1050	146	1460
	45	450	76	760	108	1080	150	1500
	48	480	78	780	110	1100	156	1560
	50	500	80	800	111	1110	160	1600
	51	510	81	810	114	1140	161	1610
	53	530	84	840	115	1150	170	1700
	55	550	85	850	120	1200	175	1750
	56	560	88	880	121	1210	178	1780
	60	600	89	890	124	1240	180	1800
	61	610	90	900	125	1250	188	1880
	63	630	91	910	130	1300	196	1960
	65	650	92	920	132	1320	225	2250

AT5	Number of teeth z	Length (mm)	Number of teeth z	Length (mm)	Number of teeth z	Length (mm)	Number of teeth z	Length (mm)
	35	175	84	420	120	600	180	900
	45	225	88	440	122	610	195	975
	51	255	90	450	132	660	210	1050
	56	280	91	455	142	710	225	1125
	60	300	96	480	144	720	257	1285
	64	320	100	500	150	750	300	1500
	68	340	105	525	156	780	-	-
	75	375	109	545	165	825	-	-
	78	390	114	570	172	860	-	-

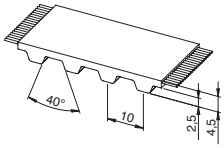
AT10	Number of teeth z	Length (mm)	Number of teeth z	Length (mm)	Number of teeth z	Length (mm)	Number of teeth z	Length (mm)
	50	500	80	800	110	1100	140	1400
	53	530	81	810	115	1150	142	1420
	56	560	84	840	120	1200	148	1480
	58	580	88	880	121	1210	150	1500
	60	600	89	890	123	1230	160	1600
	61	610	92	920	124	1240	170	1700
	63	630	96	960	125	1250	172	1720
	66	660	98	980	128	1280	180	1800
	70	700	100	1000	130	1300	186	1860
	73	730	101	1010	132	1320	194	1940
	75	750	105	1050	135	1350	-	-
	78	780	108	1080	136	1360	-	-

XL	Number of teeth z	Length (inch)	Number of teeth z	Length (inch)	Number of teeth z	Length (inch)	Number of teeth z	Length (inch)
	30	6	65	13	100	20	130	26
	35	7	70	14	100	20	135	27
	40	8	75	15	105	21	140	28
	45	9	80	16	110	22	145	29
	50	10	85	17	115	23	150	30
	55	11	90	18	120	24	-	-
	60	12	95	19	125	25	-	-

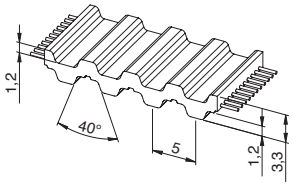
L	Number of teeth z	Length (inch)	Number of teeth z	Length (inch)	Number of teeth z	Length (inch)	Number of teeth z	Length (inch)
	33	12,38	56	21,00	80	30,00	120	45,00
	40	15,00	60	22,50	86	32,25	128	48,00
	44	16,50	64	24,00	92	34,50	136	51,00
	46	17,30	68	25,50	98	36,70	144	54,00
	50	18,75	72	27,00	104	39,00	160	60,00
	54	20,25	76	28,50	112	42,00	-	-

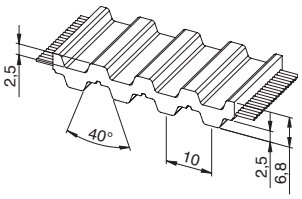
Special iSync® sleeve belt sizes - Vacuum (No tooth Gap)



VACUUM - T10	Number of teeth z	Length (mm)
	60	600
	63	630
	72	720
	80	800
	92	920

Standard iSync® sleeve belt sizes - Dual toothing

DT5	Number of teeth z	Length (mm)
	82	410
	92	460
	103	515
	110	550
	118	590
	124	620
	125	625
	130	650
	140	700
	150	750
	160	800
	163	815
	168	840
	172	860
	188	940
	220	1100

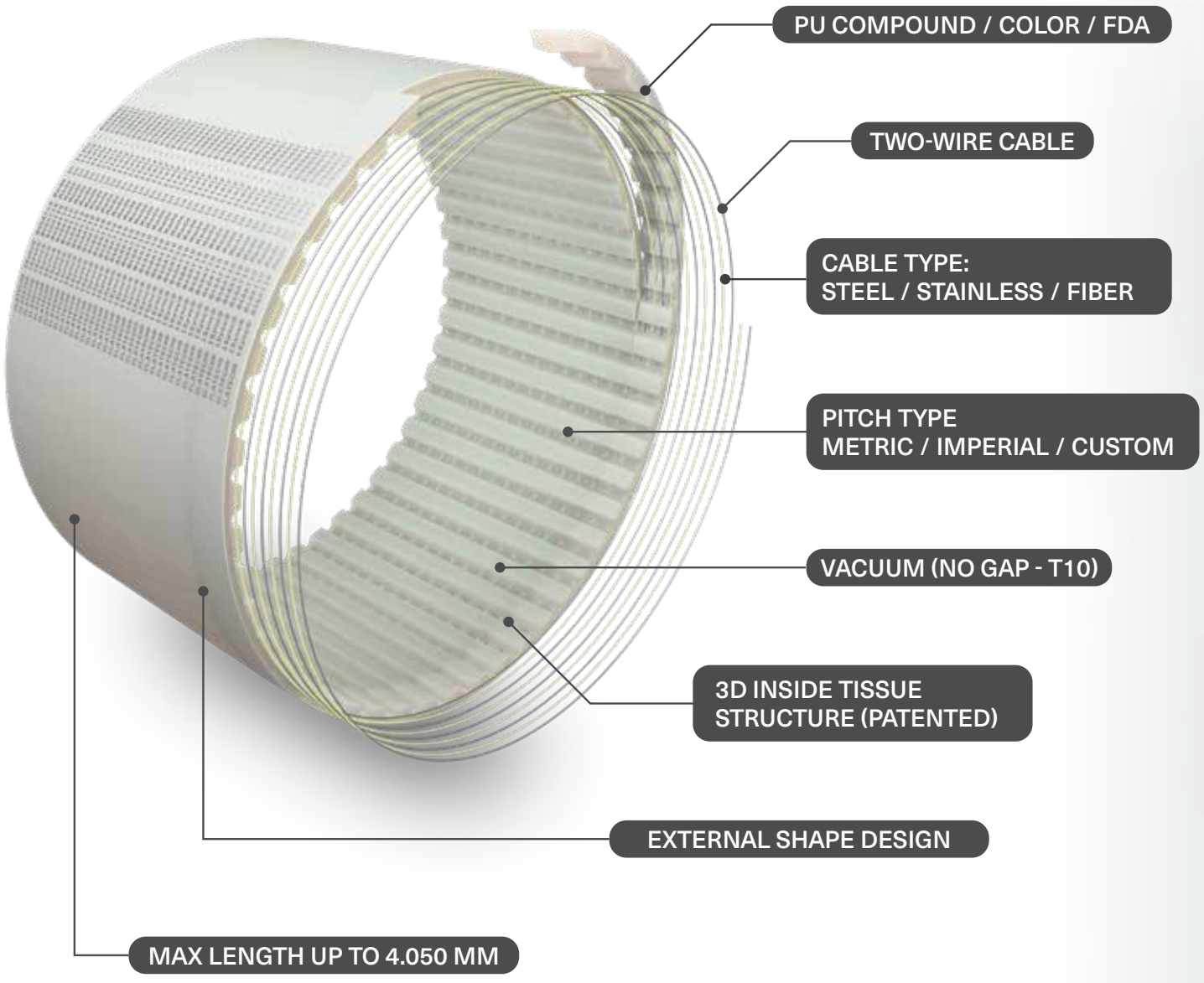
DT10	Number of teeth z	Length (mm)	Number of teeth z	Length (mm)
	26	260	98	980
	53	530	110	1100
	63	630	121	1210
	66	660	124	1240
	70	700	125	1250
	72	720	132	1320
	80	800	135	1350
	81	810	142	1420
	84	840	161	1610
	90	900	188	1880
	92	920	-	-

ELATECH® - iSync customization

ELATECH iSync® sleeves are developed to provide OEMs and machine builders with maximum design flexibility and performance. Every sleeve can be customized by combining different cable constructions, profile geometries, polyurethane compounds, and surface coverings to precisely match the requirements of the machine and process.

The selection of the cable type influences tensile strength, flexibility, dimensional stability, and overall system dynamics. Profile geometry can be optimized to ensure accurate synchronization, efficient power transmission, and perfect compatibility with pulleys and machine components. Material formulations are chosen according to environmental and operational demands, including resistance to wear, chemicals, temperature variations, and intensive cleaning cycles.

Additional coverings and surface treatments can be applied to enhance grip, product handling, abrasion resistance, noise reduction, or other application-specific functions. This modular engineering approach allows machine designers to integrate a conveying solution tailored to their exact needs, improving machine performance, reliability, and service life while simplifying system design.



MILLING - DRILLING



CLEATS



Typical application

- Draw down
- Cable pulling
- Textile
- Dairy
- Swimming pool
- Packaging

Customizations

Extra Layer

- Vulcanized
- Welded
- Spray
- Injection Moulding
- Silicone
- Brush

Machining

- Milling
- Drilling

Cleats

- Glued on the back
- Cast with mould



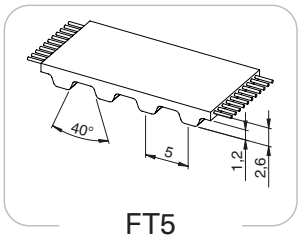
iFood® Belts

iFood belts are manufactured in **FT5 / FT10 / FAT10** profiles (100mm width), without nose gap between the teeth and with completely encapsulated cords. Thanks to the certified compounds for humid and dry food contact, **iFood** belts are recommended for food processing, conveying and packaging. Our belt design ensures a significantly greater service life, with a high level of hygienic integrity. There is no risk of slippage, even in greasy and humid environment.

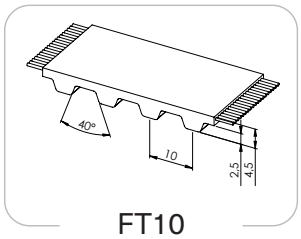
Main features:

- Used also for the smallest bending diameter, with small drive pulleys
- Standard compound: blue thermoplastic Polyurethane 92 Sh.A
- Special blue layer on teeth that improves drive lifetime
- Sealed edges and tension members to prevent bacteria growth
- S and Z torsion Kevlar cords to minimize belt stretch and improve stability
- Working temperature -30°C / +80°C

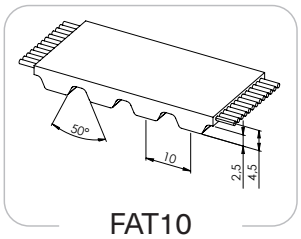
Profiles availability



FT5

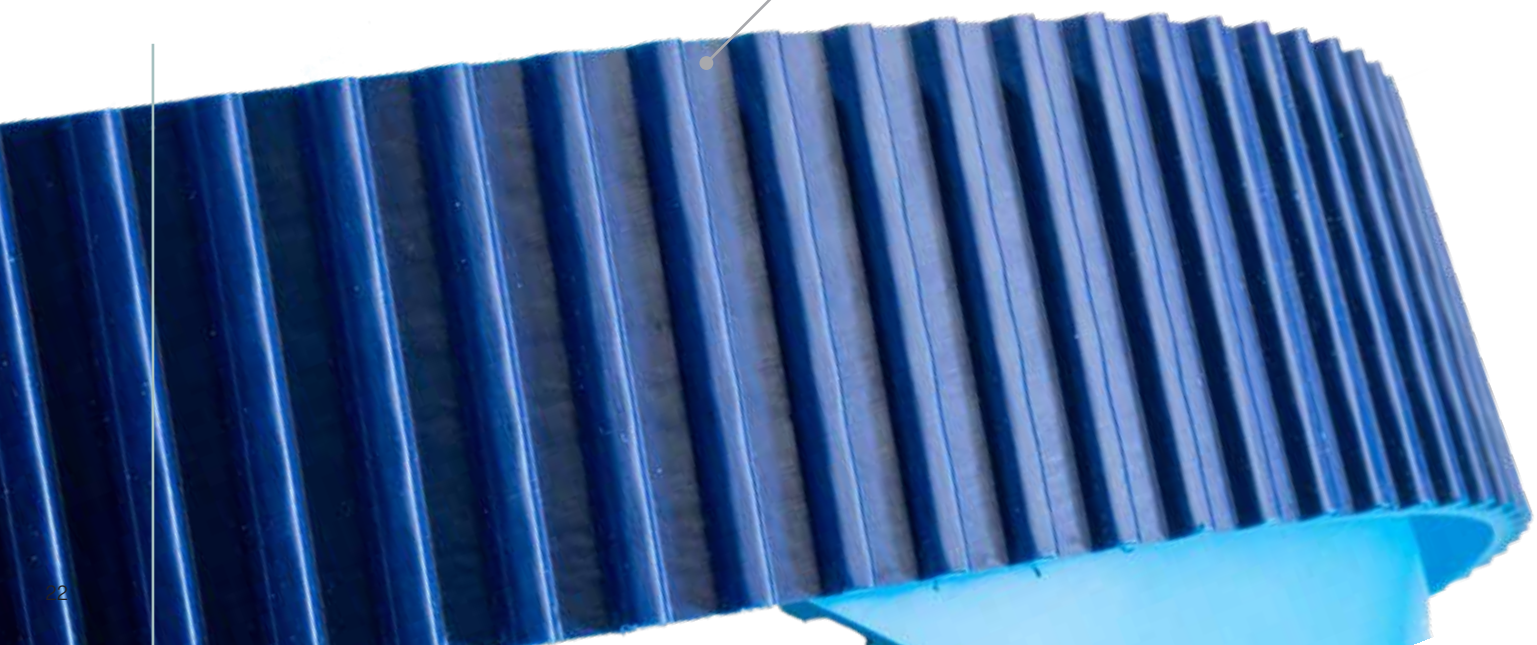


FT10



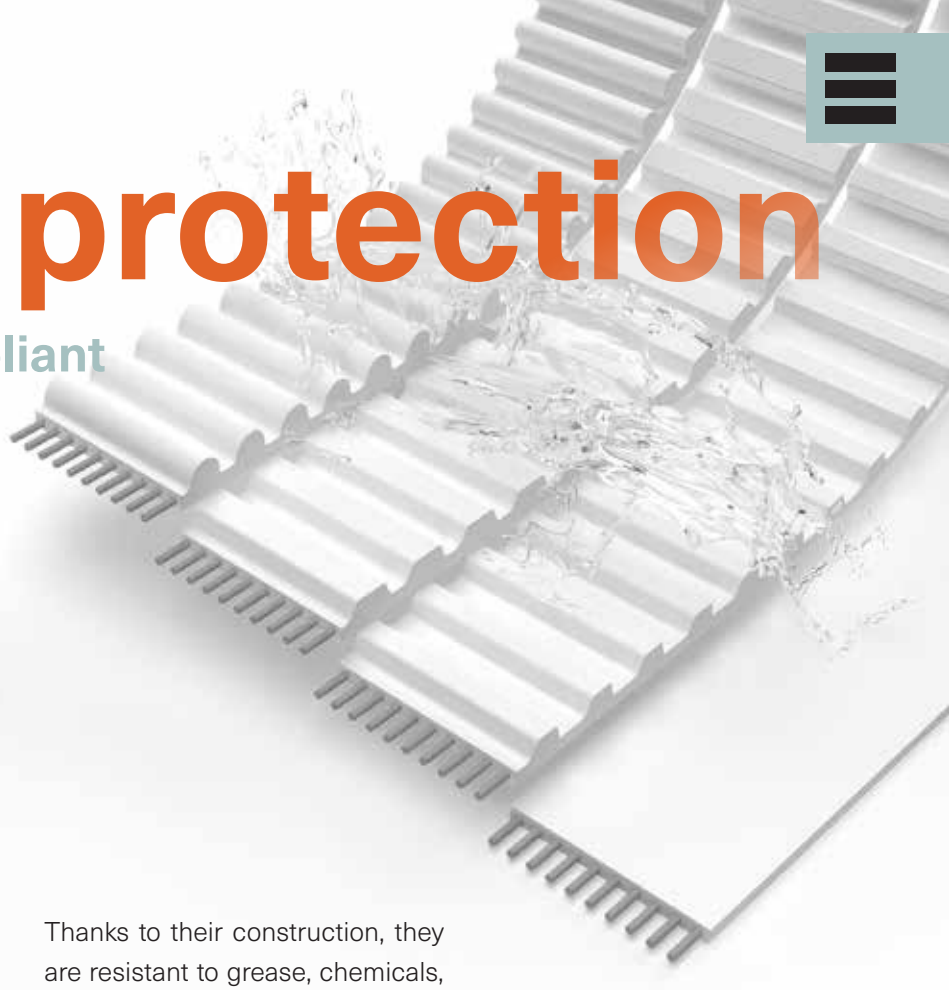
FAT10

NO CORDS EXPOSED BETWEEN TEETH



Total protection

Food grade compliant

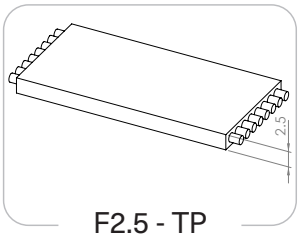


Elatech® "Total Protection" line, is a range of timing belts specifically designed for humid environments and applications requiring high hygiene standards, such as the food processing industry.

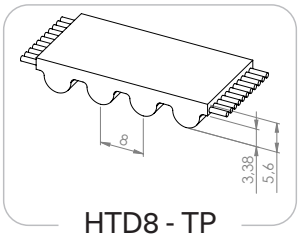
Manufactured from high quality polyurethane compound food grade compliant (92 Sh.A), these belts ensure excellent durability, cut resistance and complete protection of the internal cords, preventing exposure to moisture and corrosive agents.

Thanks to their construction, they are resistant to grease, chemicals, and water, maintaining reliable performance even under frequent wash-downs and exposure to industrial cleaning agents.

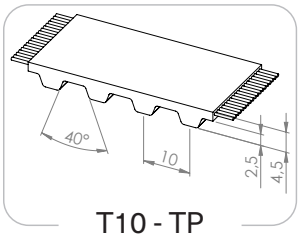
Profiles availability



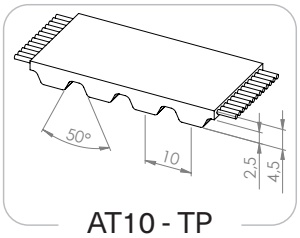
F2.5 - TP



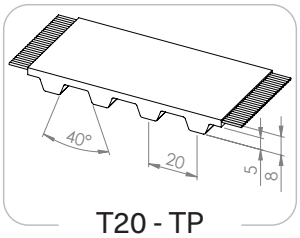
HTD8 - TP



T10 - TP



AT10 - TP



T20 - TP

ELAClean®

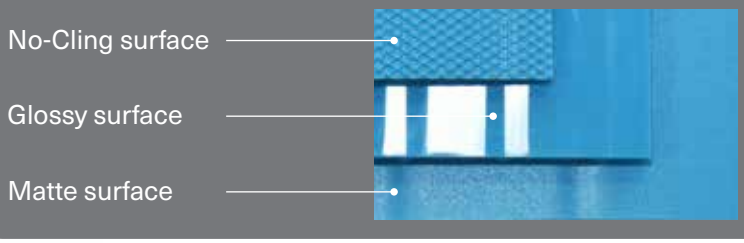
ELAClean® is a range of monolithic conveyor belts made of thermoplastic polyurethane and designed for the food industry, where the highest hygiene standards are required. This new product line is available in several versions and ensures the highest precision and quality standards.

All **ELAClean®** belts can withstand oil, grease, cleaning agents, bacteria, making them exceptionally easy to clean and suitable in critical hygiene applications (meat, poultry or seafood, dough and fresh dairy processing). In addition to those benefits, **ELAClean®** belts can be also customized with profiles, cleats and sidewalls to handle a wide range of applications.

Main features:

- Possibility of easy and effective clean-in-place process (CIP)
- Urethane material compatible with wash down environments
- No fragmenting or chipping
- Environmental sustainability thanks to the reduction of cleaning labour, energy and water usage
- Reduction in maintenance, sanitation costs and shorter downtime
- Sprockets compatibility: drop-in replacement for most thermoplastic belts in the market
- Ideal for replacement of plastic modular belts
- Longer belt life due to minimal belt stretch

Surface textures:



Application fields:

MEAT · POULTRY · DAIRY · BAKERY · PASTRY

VEGETABLE · SEAFOOD · FISH · FRUIT · SNACK

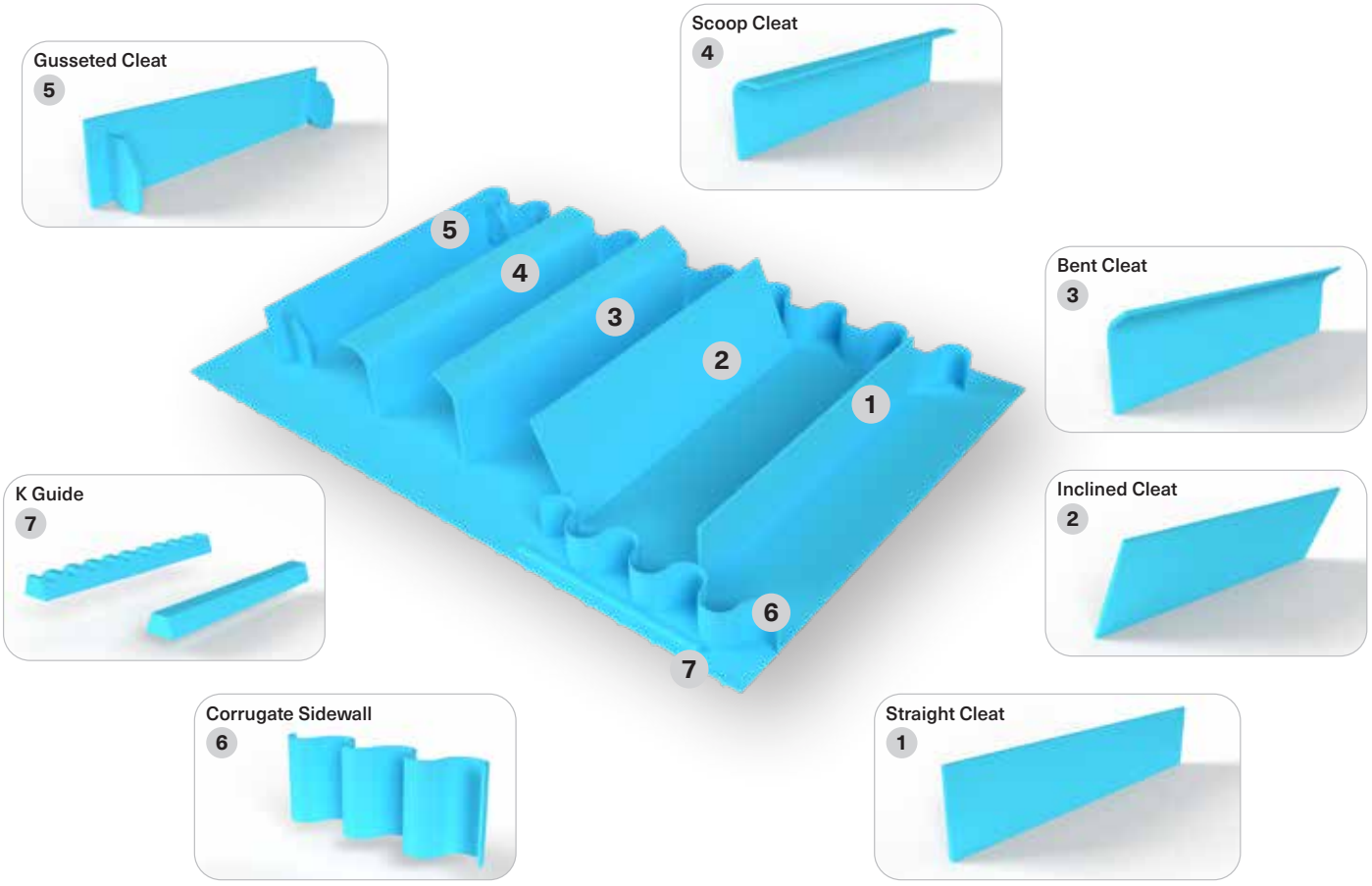
Product availability (TPU 95 Sh.A)

Belt TYPE [Code]	A - PITCH	C - OVERALL BELT THICKNESS	STANDARD WIDTH	CORD TYPE	WORKING TEMPERATURE	STANDARD COLOUR	STANDARD ROLL LENGTH
ECW - P1N	26,0 mm	6,30 mm	1800 mm	NO CORDS	-30 °C up to +80°C	Sky Blue	60 m
ECW - P2N	50,0 mm	8,60 mm	1800 mm				60 m
ECW - C4N	39,7 mm	10,50 mm	1524 mm*				60 m
ECW - F3N	-	3,00 mm	1800 mm				100 m

** 2 Lugs*

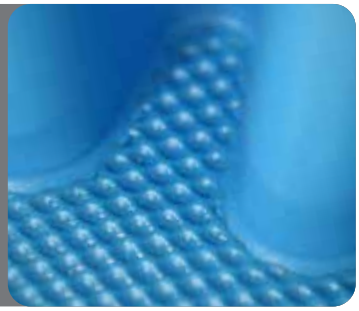
Belt fabrication

Customize the belt with the most suitable configuration according to your application needs.



High frequency welding technology

Elements are welded on the belt using high-frequency technology.
This process guarantees strength (the basic characteristics of the urethane material are not modified) and keeps the sealed contact areas free of holes or bubbles (preventing the accumulation of substances and microbial growth).



Accessories

Sprockets & Wheels



Sprocket EC-SM1



Sprocket EC-SM2



Sprocket EC-SM4C



Idler EC-SM4T



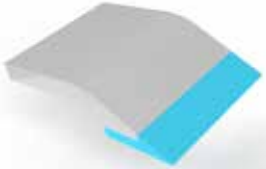
Idler with flange EC-SM2F



Idler without flange EC-SM2I



Retainer



Belt scraper

Elastic Belts

Elastic Monolithic Conveyor Belts Designed for Food Safety

Main features:

1. **Superior Food Safety (material suitable for HACCP Compliance) -** The primary cause of food recalls in conveyor systems is “wicking” where bacteria travel through the fabric core of a belt. ELATECH’s monolithic design is free of fabric or fibers for reinforcement. It is solid material from top to bottom, making it impossible for microbes to hide or for the belt to delaminate.
2. **Zero Fiber Contamination -** Traditional belts eventually fray, dropping tiny plastic or fabric fibers into the food product. As our belts are one continuous solid material, there are no fibers to lose. This ensures a “clean label” process.
3. **Reduced Water & Chemical Usage -** As the surface is perfectly smooth and non-absorbent, cleaning time is reduced up to 50%. You will use significantly less water and fewer harsh sanitizing chemicals, contributing to your company’s sustainability goals and lowering operational costs.
4. **Elasticity & Easy Maintenance -** Our elastic range is designed to be “fit and forget.” These belts operate at lower tensions, which extends the life of your motor bearings and rollers. Furthermore, they are easily joined using simple welding tools, allowing for rapid on-site repairs without the need for specialized external contractors.



Applications

- **Meat & Poultry:** Resists animal fats and heavy wash-downs.
- **Bakery:** Smooth release for dough and easy cleaning for flour dust.
- **Seafood:** Non-absorbent material prevents odor buildup.
- **Fruits & Vegetables:** Gentle handling with no crevices for juice or soil.

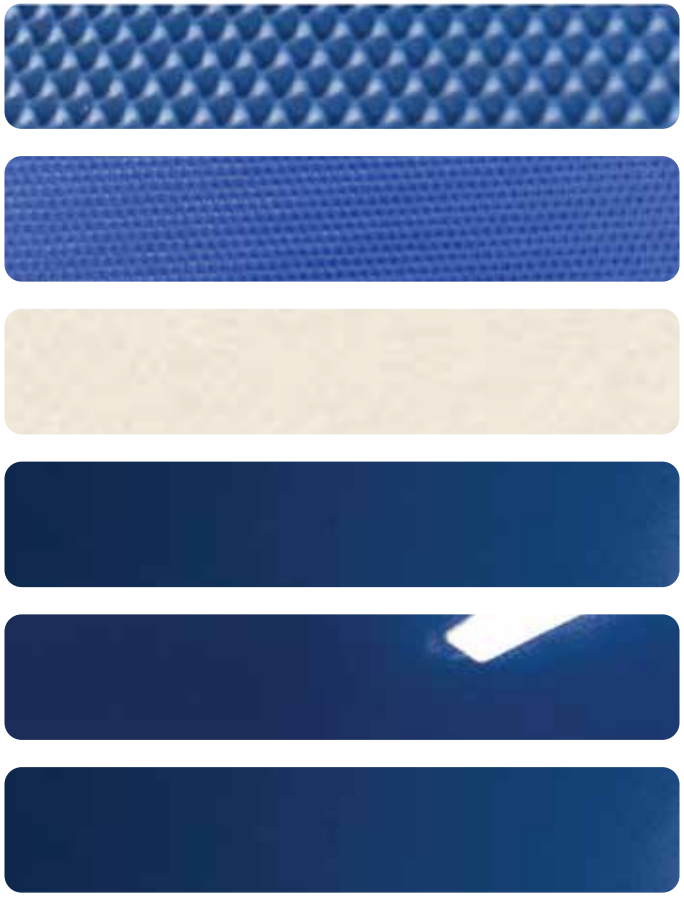
MEAT
POULTRY
DAIRY
BAKERY
PASTRY
VEGETABLE
SEAFOOD
FISH
FRUIT
SNACK

Product Characteristics

- **Belt Material:**
  High Abrasion Resistant TPU, High Hydrolysis resistant TPU
- **Temperature Range:**
  -30° to 60° (-22°F to 140°F)
- **Colors:**
  White, Cobalt Blue, Marine Blue and Transparent.
- **Thickness:**
  1.00 mm up to 4.00 mm
- **Standard Width:**
  850 mm trimmed
- **Standard roll length:**
  50 m / 100 m
- **Hardness:**
  85 ShA and 92 ShA
- **Food contact PU:**
  FDA / EU conform

Belt Structures Overview

ELAClean® elastic monolithic belts are available in different textures, that can be combined with each other on the top and bottom side: Impression top, smooth, inverted diamond, velvet, glossy, matte.











Round® Belts









ELAClean® Round belts made with polyurethane food grade are designed for the food industry, ensuring maximum hygiene and reliability in every application. Made from high quality thermoplastic polyurethane material in marine blue color, they offer food safety compliance, excellent hydrolysis resistance and quick on-site installation reducing the downtime.

ELAClean® Round belts are available with different textures:

- **Smooth,** having a higher coefficient of friction, suitable for applications without accumulation and ideal for conveying higher loads;
- **Rough,** having a lower coefficient of friction than those with smooth texture (on steel μ= 0.4 compared to 0.6). The belt with rough surface is therefore suitable for light conveying or conveying application with accumulation.

Product Characteristics

- **Material**: High Hydrolysis resistant TPU
- **Diameters**: from 4 Ø mm to 12 Ø mm
- **Finishes**: Smooth or rough
- **Temperature Range**: -20° to +60°
- **Supplied in spools**: 50 m or 100 m
- **Heat-weldable**: No glue or mechanical joints needed - weld directly on site
- **Color**: Marine Blue and Dark Blue (for Metal detectable)
- **PU for Food Contact**: EU, FDA compliant

ELAClean® ROUND BELT

Material	Color	Textures	Hardness in Sh A	Diameter in mm	Min Pulley Diameter in mm	Temperature Range	
						min °C	max °C
TPU	Marine Blue	smooth	85	3	20	-20	+60
TPU	Marine Blue	smooth	85	4	35	-20	+60
TPU	Marine Blue	smooth	85	5	45	-20	+60
TPU	Marine Blue	smooth	85	6	50	-20	+60
TPU	Marine Blue	smooth	85	8	70	-20	+60
TPU	Marine Blue	rough	85	4	35	-20	+60
TPU	Marine Blue	rough	85	6	50	-20	+60

ELAClean® METAL DETECTABLE ROUND BELT

Material	Color	Textures	Hardness in Sh A	Diameter in mm	Min Pulley Diameter in mm	Temperature Range	
						min °C	max °C
TPU	Dark Blue	smooth	85	4	35	-20	+60
TPU	Dark Blue	smooth	85	6	50	-20	+60
TPU	Dark Blue	smooth	85	8	70	-20	+60



Key Advantages

- **Fast installation**
  cutting and welding in minutes
- **Silent & safe** - no metal joints
- **Flexible & elastic**
  perfect for close rollers or deviations
- **Resistant to wear, oils & chemicals**
- **Long life** - even in wet or oily conditions
- **Blue color**
  for easy contamination detection
- **Easy-to-clean,** non-migrating surface
- **Reduced downtime** - no need for machine disassembly
- **Lower inventory costs**
  one spool fits multiple lengths
- **Made in Italy**
  with the best raw materials



Applications

- **Food processing lines**
- **Packaging lines**
- **Transport systems**
- **Cooling systems**
- **Food Tray conveyor systems**


MEAT


POULTRY


DAIRY


BAKERY


PASTRY


VEGETABLE


SEAFOOD

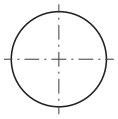

FISH


FRUIT

Extruded Round & V-Belt Profiles

Profile belts are the backbone of ceramic, roof tile and brick conveying systems. **ELATECH®** offers one of the most comprehensive range of profiles for squaring lines, stop-and-go operations, angular transfers and general conveying applications. Manufactured from high-quality thermoplastic polyurethane, they maximise efficiency and flexibility in every application.

Round Profile





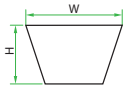
Features

- Also available with polyester or Kevlar reinforcement cords
- Diameter: from 3 mm to 20 mm
- Different PU or TPE compounds: green 85 Sh. A as standard; white 92 Sh. A available on request
- Operating temperature range: −20 °C to +60 °C
- Different surface textures: smooth or rough

Benefits

- Resistant to oils, water and a wide range of chemicals
- Excellent flexibility
- High elasticity
- Outstanding tensile strength
- Quick and easy installation
- Can be replaced without removing the machine shafts

V-Belt Profile





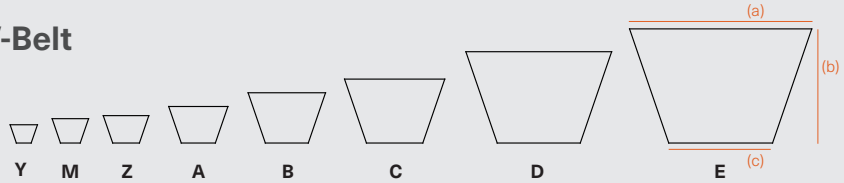
Features

- Also available with polyester or Kevlar reinforcement cords
- Available profiles: Y, M, Z, A, B, C, D and E
- Different PU or TPE compounds: green 85 Sh. A as standard; white 92 Sh. A available on request
- Operating temperature range: −20 °C to +60 °C
- Available in PU, PVC, TPE and rubber

Benefits

- Resistant to oils, water and a wide range of chemicals
- Excellent dimensional stability for longer service life and vibration-free operation
- Excellent abrasion and wear resistance
- Easy to join by welding, including directly on site
- Quick and easy installation
- Can be replaced without removing the machine shafts

Dimensional Data V-Belt
DIN 2215
ISO 4184

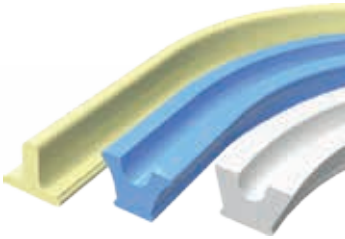


PROFILE	Y	M	Z	A	B	C	D	E
WIDE BASE (a)	6	8	10	13	17	22	32	40
HEIGHT (b)	4	5	6	8	11	14	20	25
NARROW BASE (c)	3,3	4,55	5,9	7,5	9,4	12,35	18,25	22,78

Custom-Made Profiles

When an application requires a non-standard profile, **ELATECH®** designs, develops and manufactures custom-made products tailored to specific requirements.

IDEA › DESIGN › TECHNICAL SUPPORT › MANUFACTURING EXPERTISE › HIGHEST QUALITY



Features

- Available as a complete kit or as individual components
- Positioning jig for round belts
- Positioning jig for V-belts
- Constant welding temperature, even during prolonged use, thanks to the integrated temperature control
- Dual welding blade, available either Teflon coated or uncoated

Accessories

This practical kit, complete with cutters, guide clamps and a wide range of accessories, provides everything required for the quick and secure joining of round belts and V-belts.

Welding Tool



Cutter



Accessories



Guide Clamp VV





Guide Clamp RR







Backings

A wide range of backings in various materials is available to enhance the performance of **ELATECH®** belts, particularly in applications where synchronisation is essential. The most commonly used backings in the ceramic and tile industries are rubber, PU and cellular foam.
Each type offers specific properties, including different hardness levels, high grip, and excellent resistance to abrasion, tearing and wear.



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

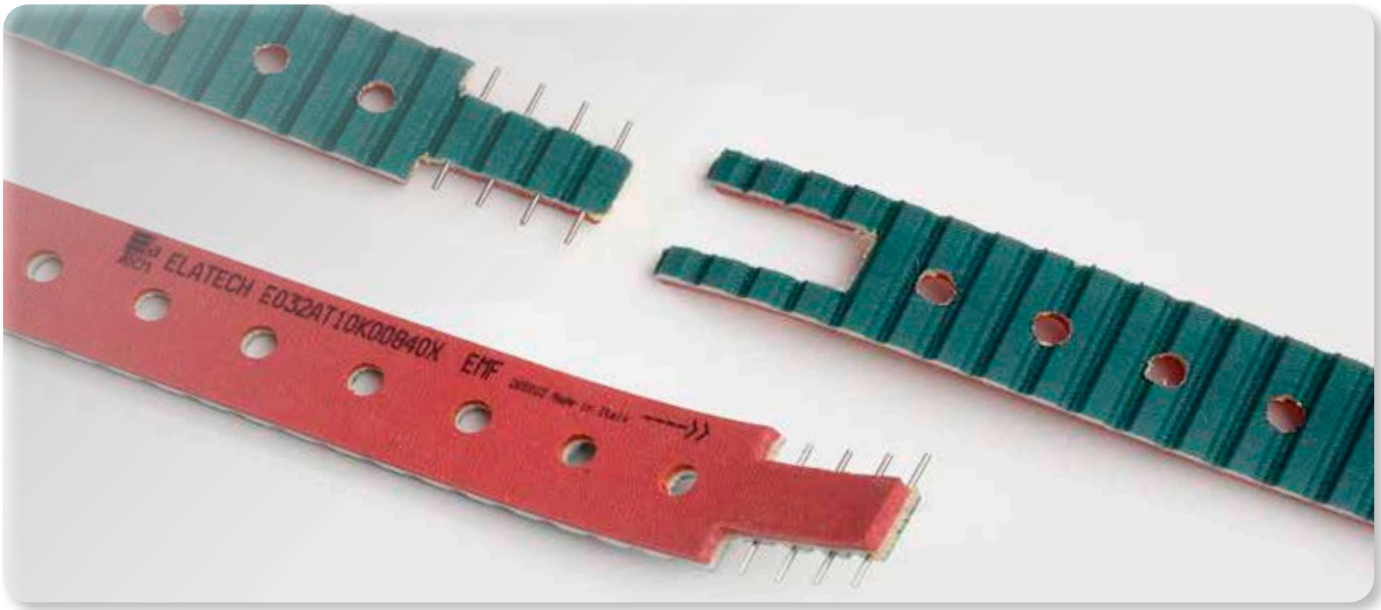
EMF mechanical fastening system

ELATECH®'s EMF mechanical fastening system is the best and the most cost-effective solution for installing 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. Mechanical fastening is also available for customized belts with backings and/or cleats.

ELATECH®'s SAFELOCK mechanical fastening system is the alternative version of standard Elatech® EMF. This new version compared with standard EMF has improved characteristics such as:

- Available for all the EMF standard range
- Better adhesion with long finger splice
- Milled edges to avoid accidental pin slippage
- Made in stainless steel
- Not available: pitch T5 and AT5
- Not available: < 16mm width (all profiles)





Elatech® EFT

False Tooth System

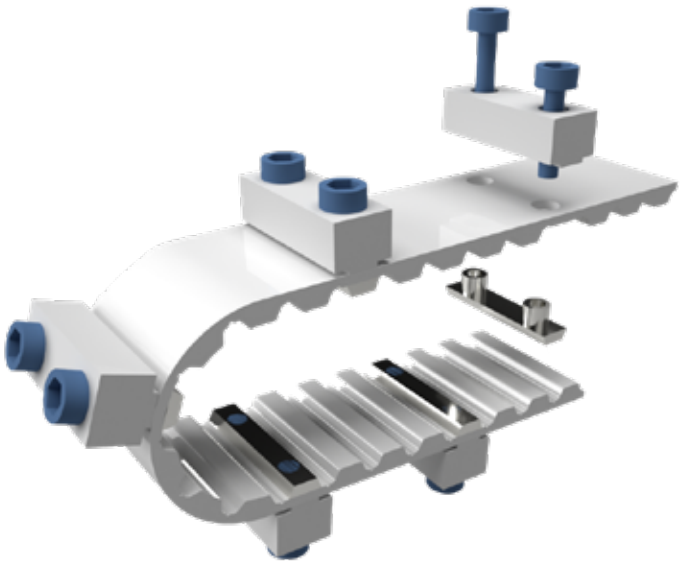


EFT False Tooth System is ELATECH®'s mechanical profile application specially designed for fastening cleats that cannot be welded onto polyurethane timing belts. Stainless steel teeth are available, either with total tooth or with embedded tooth design. In total tooth design each **EFT** replaces the whole tooth of the belt, while the embedded design prevents any metal-to-metal contact, ensuring more silent operations.

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.

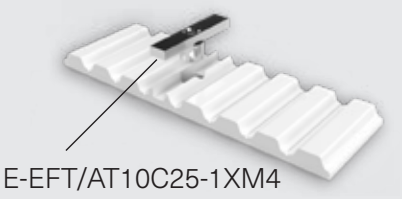
EFTs provide many advantages, such as:

- 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

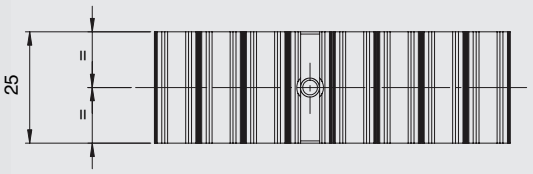


E-EFT/AT10C25-1XM4

Suitable for AT10 and H profile 25 mm wide, one pin



E-EFT/AT10C25-1XM4

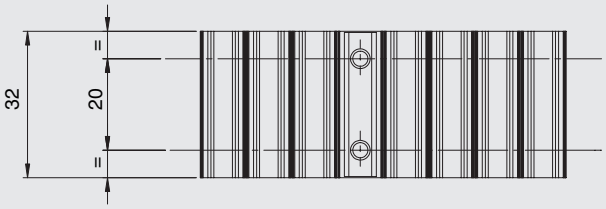


E-EFT/AT10T32-2X20M4

Suitable for AT10 profile 32 mm wide, two pins at 20 mm centre distance



E-EFT/AT10T32-2X20M4

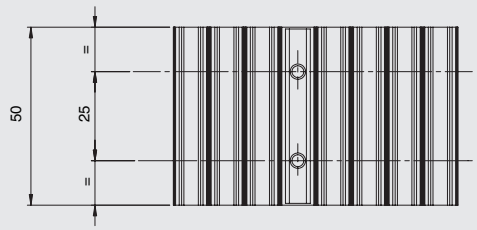


E-EFT/AT10T50-2X25M4

Suitable for AT10 profile, 50 mm wide, two pins at 25 mm centre distance



E-EFT/AT10T50-2X25M4

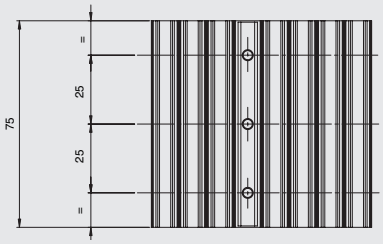


E-EFT/AT10T75-3X25M4

Suitable for AT10 profile, 75 mm wide, three pins at 25 mm centre distance



E-EFT/AT10T75-3X25M4

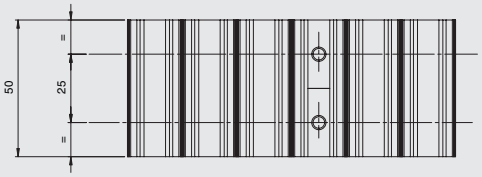


E-EFT/AT20C25-1XM5

Suitable for AT20 and XH profile, 25-50-75-100 mm wide, number of pins multiple of 25 mm centre distance

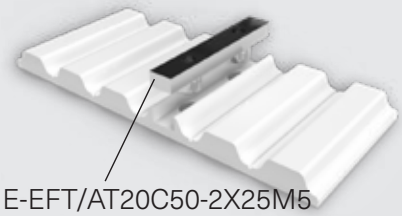


E-EFT/AT20C25-1XM5

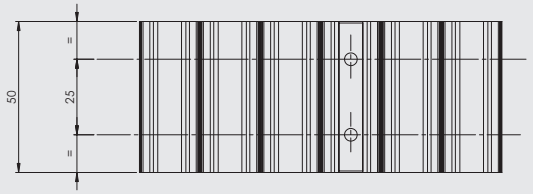


E-EFT/AT20C50-2X25M5

Suitable for AT20 and XH profile, 50 mm wide, two pins at 25 mm centre distance



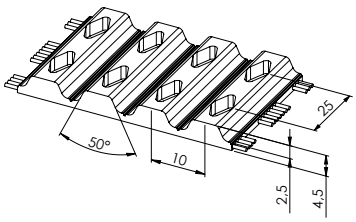
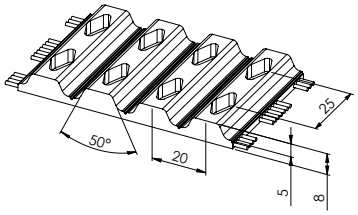
E-EFT/AT20C50-2X25M5



Elatech® ATF

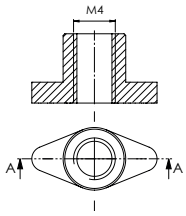
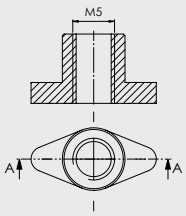
Elatech® ATF timing belts, made with resistant polyurethane (Standard: 92 Shore A) and high strength steel or stainless-steel tension members, are available as open ended or welded endless belts. This belt type is suitable for a rapid and easy setup of profiles with simple hand tools.
A multitude of profiles can be attached, converted, interchanged, or reconfigured. **ATF** technology combines flexibility, strength, accuracy and offers high precision profile positioning. Mounting holes (cavities) for the inserts are extruded into every tooth of the base timing belt, **ATF** timing belts are universally suitable for various positioning and conveying applications.

Product Range

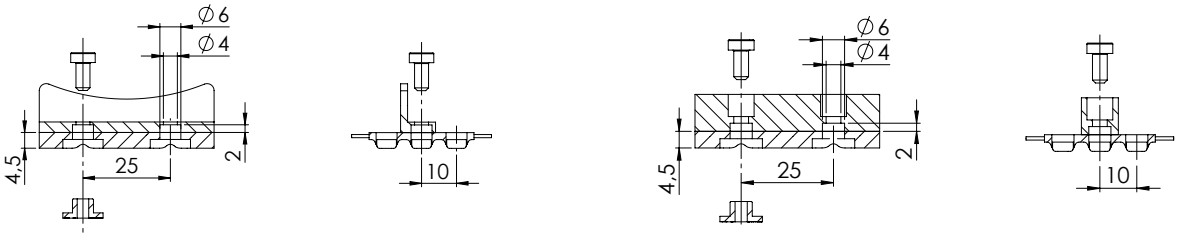
ATF Profile			No. of inserts per tooth
	ATF 10	**ATF 20**	
Pitch (mm)	10	20	
Available Belt Width (mm)	25	not available	1
	50	50	2
	75	75	3
	100	100	4



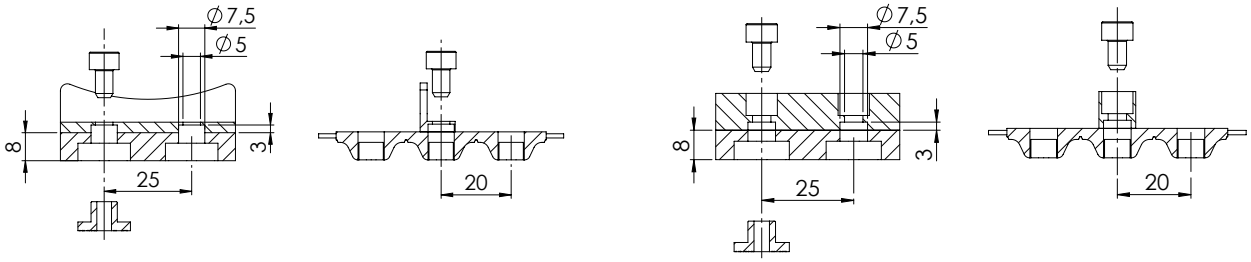
Insert Types

Insert Profile	Dimensions	Thread size	Material	Applications
 E-EFT/AT10R-1XM4		M4	Stainless Steel	- Small loads - Low dynamic loads
 E-EFT/AT20R-1XM5		M5	Stainless Steel	- Medium and large loads - High dynamic loads

Example of cleat configurations



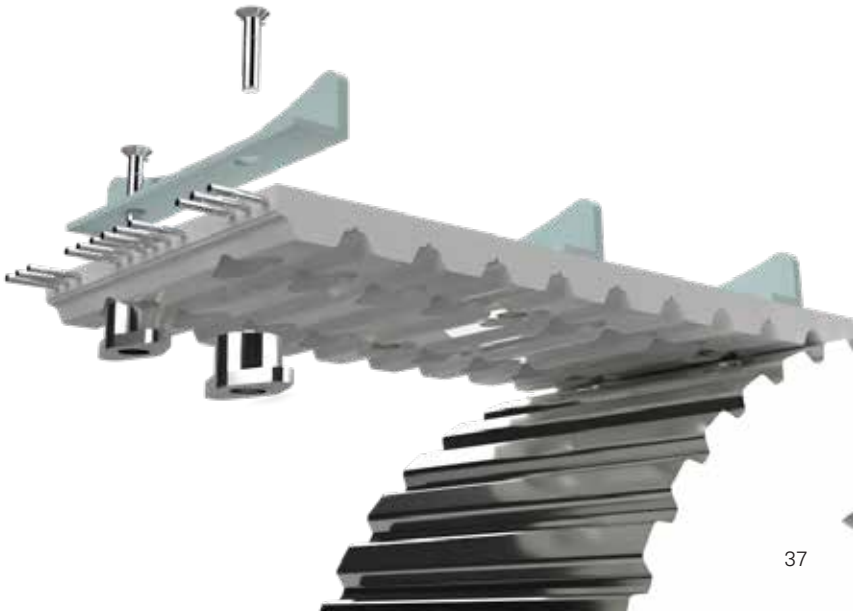
ATF 10



ATF 20

ATF Advantages:

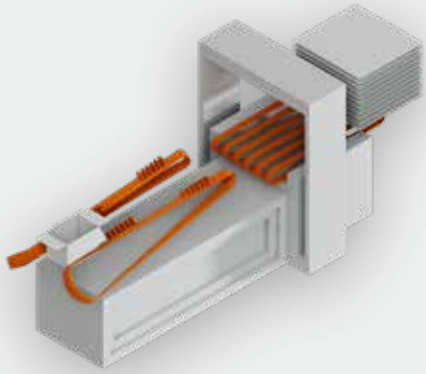
- Variable cleat pitch
- Different cleat materials can be used
- Standard timing belt pulleys can be used
- High shear strength
- Quick and easy cleat change
- Cleats spacing is extremely precise
- No cleat welding beads
- Reduced downtime

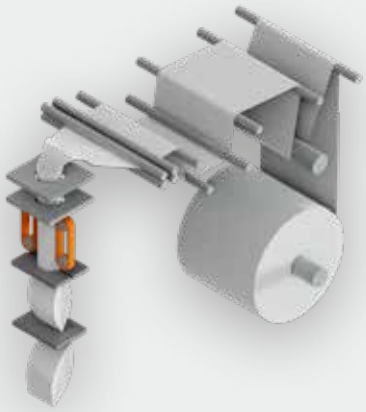


Application fields

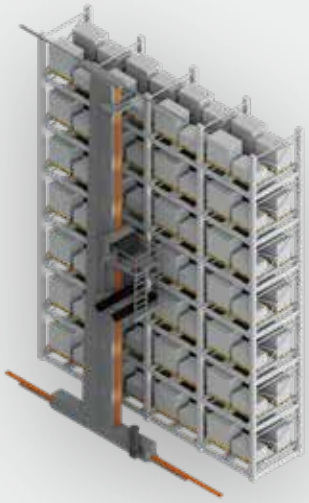
Elatech® polyurethane belts are the ideal solution for applications requiring precision, reduced noise, energy efficiency, reliability. There are no limits to creativity!

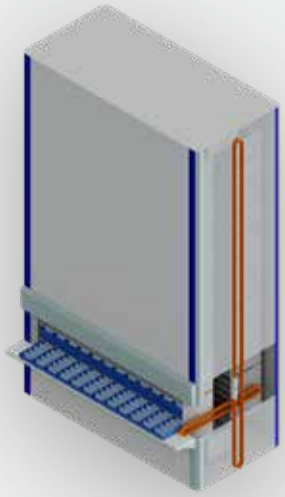
PACKAGING





LOGISTICS





LIFT

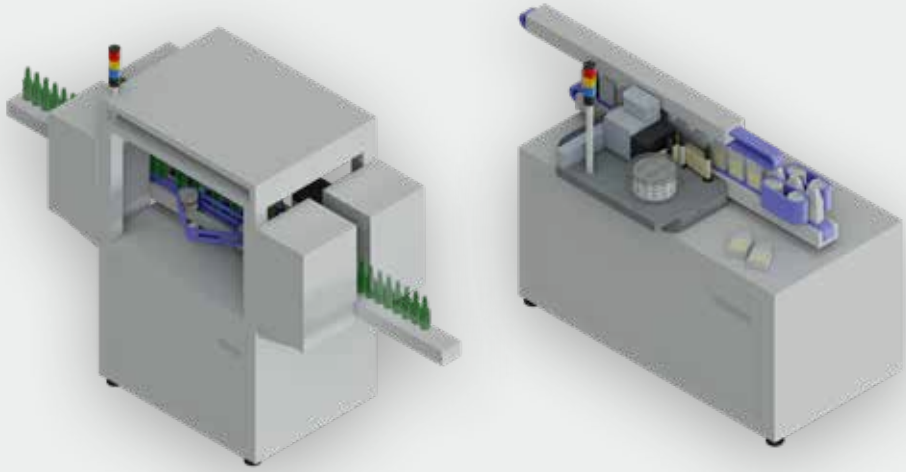


AND MORE...

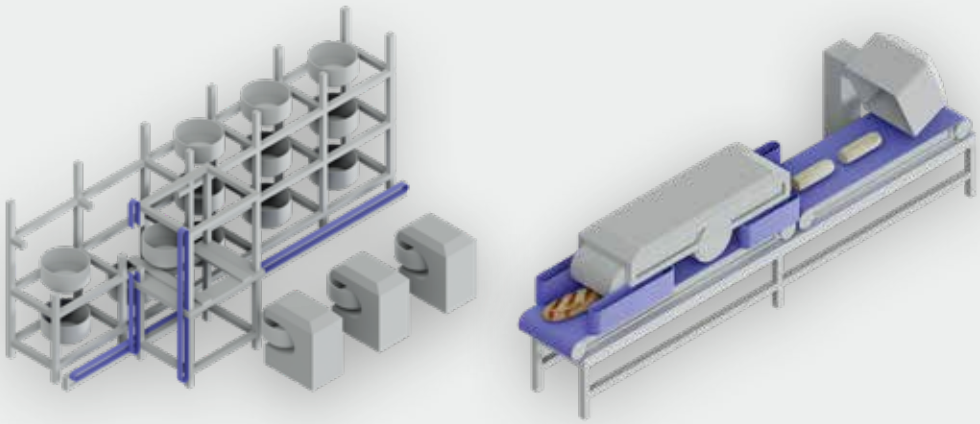
Application fields

For food industries

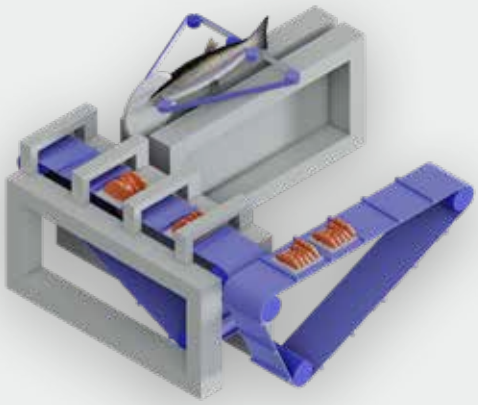
FOOD PACKAGING



BAKERY



FISH AND MEAT



AND MORE...

IB902-02/10 - 08/26 (1000 - 08/26)

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