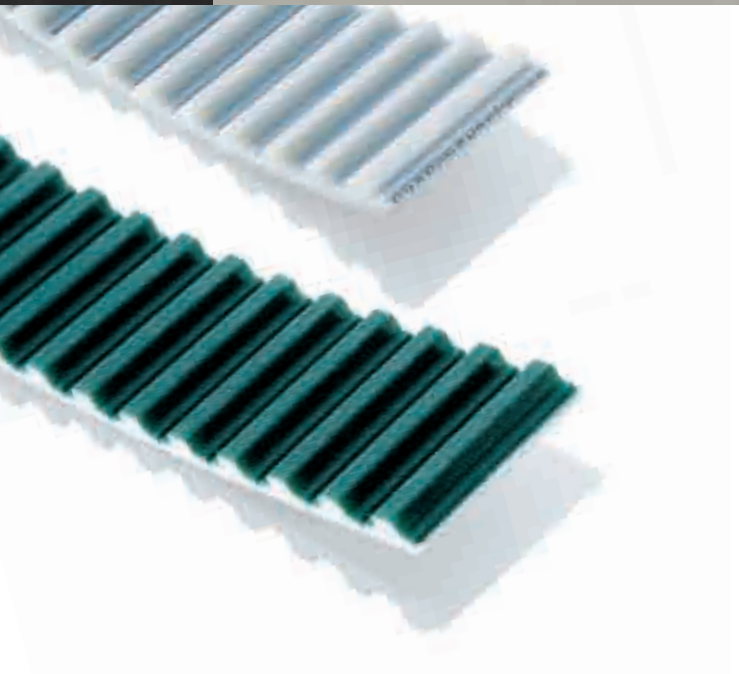


*Technology in Motion*

# Polyurethane belts



*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, realized with the newest generation

technologies, the modern and efficient test and control equipments and a unique team of qualified technicians and engineers, allow **ELATECH®** to offer superior products with highest flexible service.

## *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*

With 5 sister Companies in 3 continents and a wide range of qualified distributors, **ELATECH®** guarantees superior technical and delivery service worldwide.





*innovation for success*



## *Research & Development*

We strongly believe innovation is the key of success for our Customers.

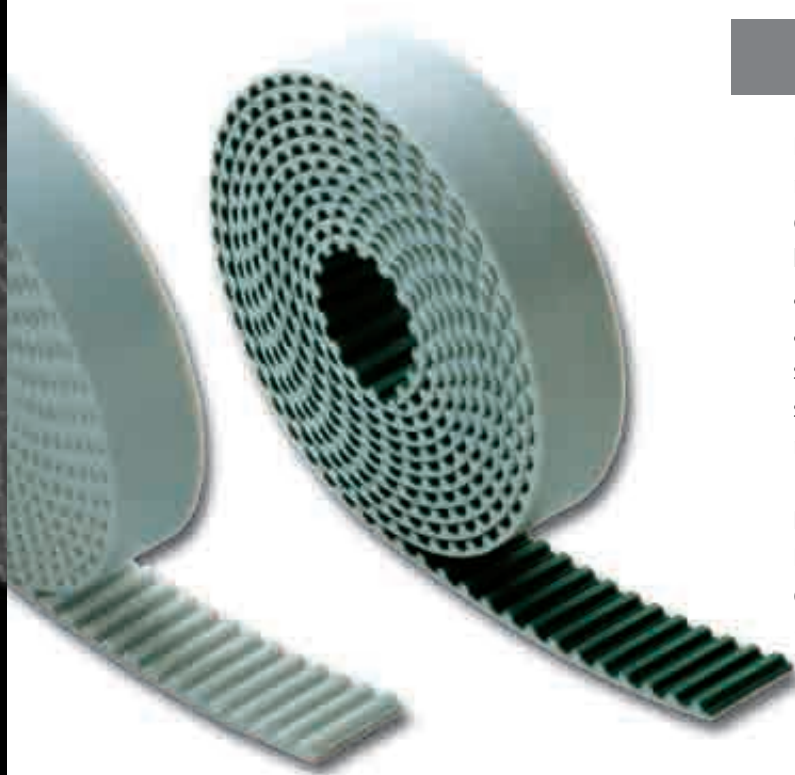
We are totally committed to quality and close cooperation with our Customers to solve in the most advanced and economical way all the problems of the design engineers.

Our qualified technicians and our advanced test laboratory with most modern resources allow us to offer the most effective solutions in all conveying, lifting or power transmission applications.

## *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 9001:2000**

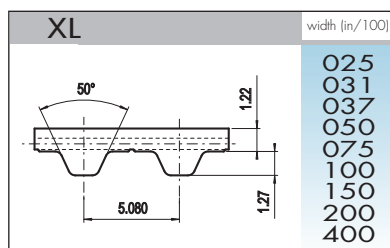
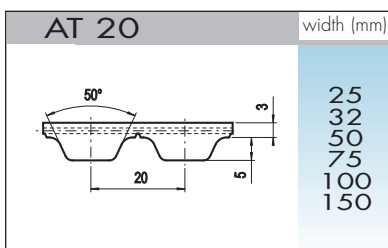
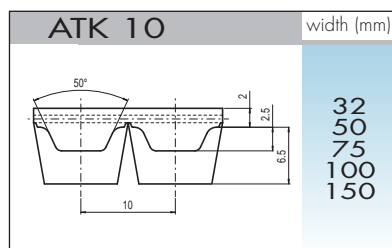
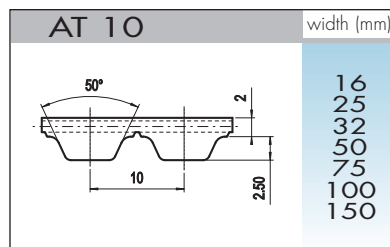
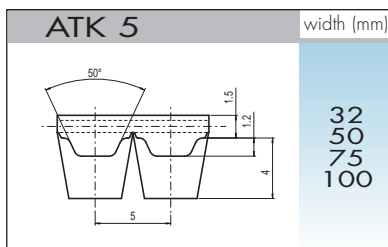
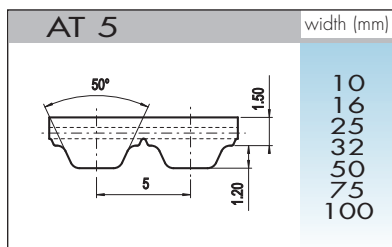
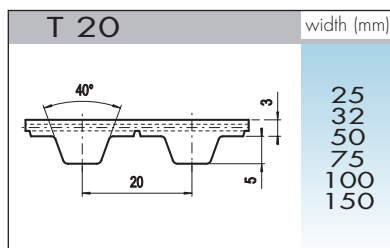
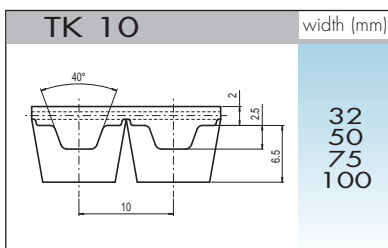
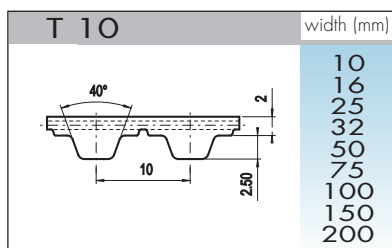
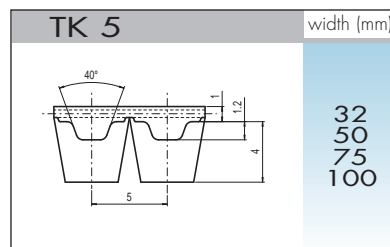
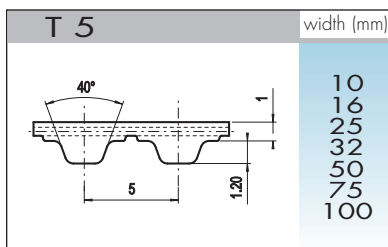
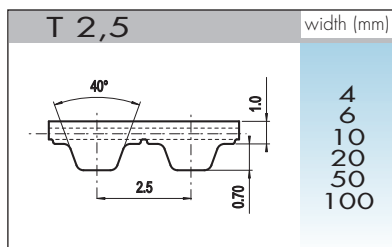


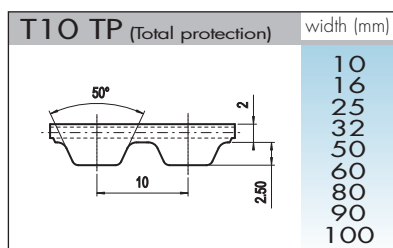
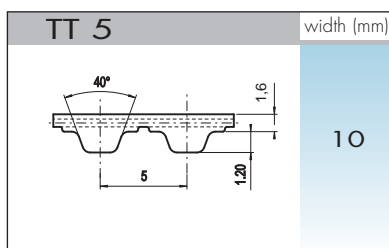
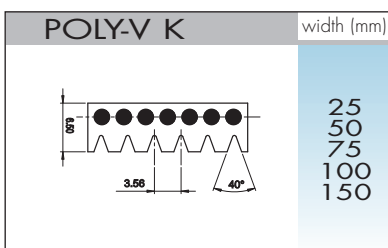
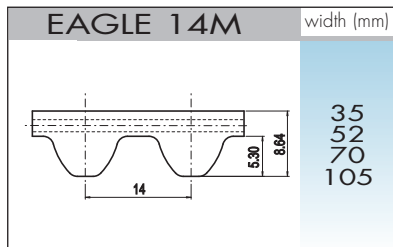
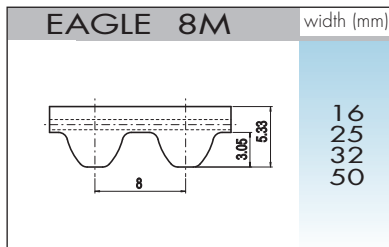
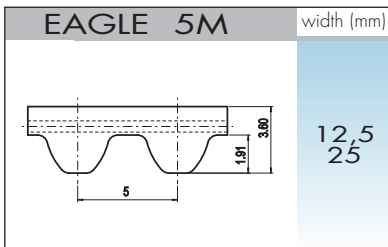
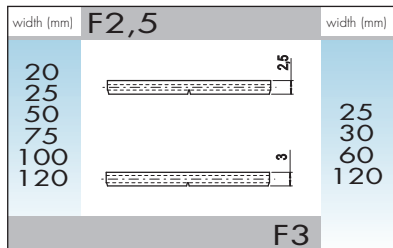
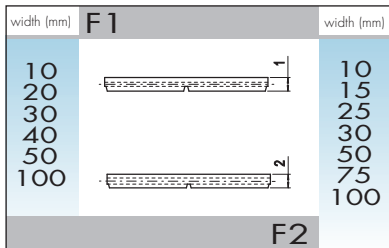
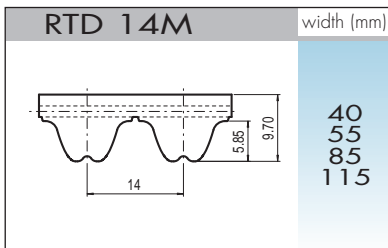
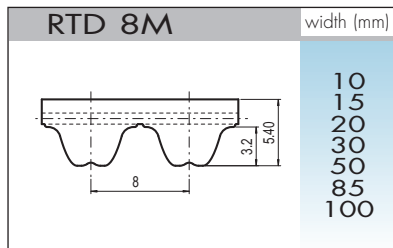
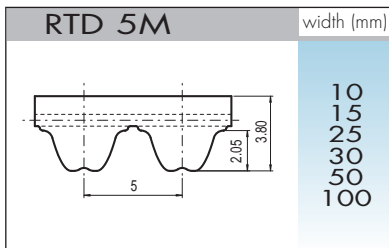
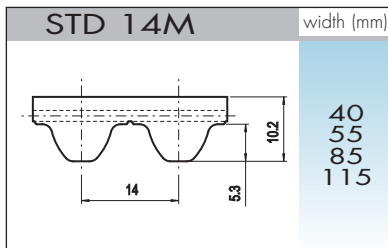
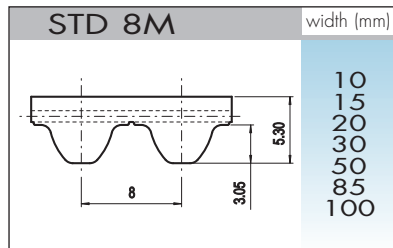
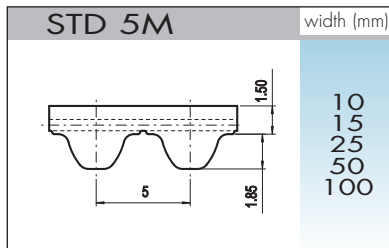
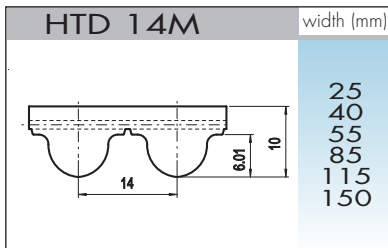
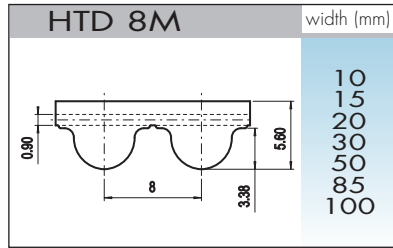
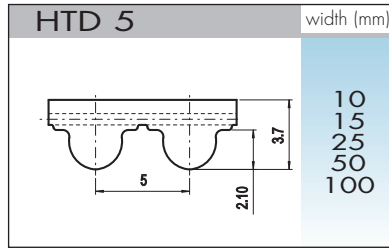
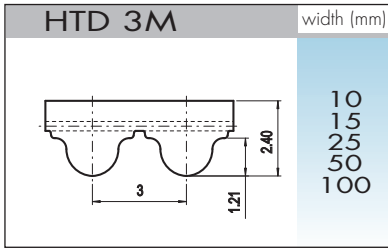
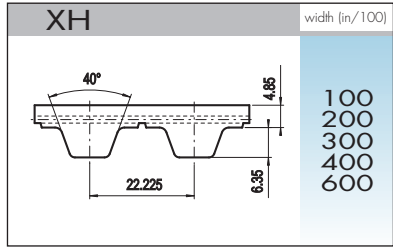
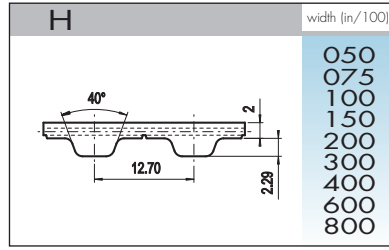
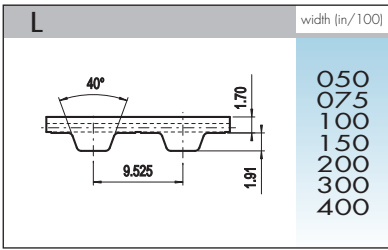
## Open end

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

In order to maximize the application of **ELATECH®** timing belts, it is possible to deliver belts with:

- Special cords:
  - HFE high flexibility,
  - HPL high performance
  - XHPL extra high performance
  - INOX stainless steel
- Aramid
- Antistatic properties
- Special colour
- **Double sided execution**





**ELATECH® iSync** belts, are innovative truly endless high performance power transmission belts with thermo set resin body and steel (standard) or aramid fiber (on demand) traction cords. The high modulus cords used in the belt production, allow great length stability and low bearing load.

The special manufacturing method and the materials used, make **ELATECH® iSync** belts extremely precise and therefore suitable in all applications where high performances are needed.

It makes drive calculations extremely quick and reliable.

#### 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, thermo-set polyurethane designed specifically for timing belt applications
- Available with either steel or Kevlar® reinforcement
- Application temperature -30°C - +100 °C.

#### 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 a standard range in the following profile range:

- **T2,5, T5, T10, AT5, AT10**

The following profiles and executions are manufactured on request:

- **MXL, HTD5M, DD (double sided)**

#### Drive calculation

ELA-DRIVE on line drive calculation software is available at [www.elatech.com](http://www.elatech.com)

It makes drive calculations extremely quick and reliable.

T2,5	
Number of teeth z	length [mm]
48	120
58	145
64	160
71	177,5
72	180
80	200
92	230
98	245
106	265
114	285
116	290
122	305
127	317,5
132	330
152	380
168	420
192	480
200	500
216	540
240	600
260	650
380	950

T5	
Number of teeth z	length [mm]
56	280
59	295
60	300
61	305
64	320
65	325
66	330
68	340
70	350
71	355
72	360
73	365
75	375
78	390
80	400
82	410
84	420
85	425
86	430
88	440
89	445
90	450
91	455
92	460
95	475
96	480
100	500
102	510
105	525
109	545
110	550
112	560
115	575
118	590
120	600
122	610
124	620
125	625
126	630
128	640
130	650
132	660
135	675
138	690
140	700
144	720
145	725
150	750
156	780
160	800
163	815
168	840

T5	
Number of teeth z	length [mm]
170	850
172	860
180	900
188	940
198	990
200	1000
215	1075
220	1100
223	1115
228	1140
240	1200
243	1215
263	1315
270	1350
276	1380
288	1440

T10	
Number of teeth z	length [mm]
69	690
70	700
72	720
75	750
78	780
80	800
81	810
84	840
85	850
88	880
89	890
90	900
91	910
92	920
95	950
96	960
97	970
98	980
100	1000
101	1010
105	1050
108	1080
110	1100
111	1110
114	1140
115	1150
120	1200
121	1210
124	1240
125	1250
130	1300
132	1320
135	1350
139	1390
140	1400
142	1420
144	1440
145	1450
146	1460
150	1500
156	1560
160	1600
161	1610
170	1700
175	1750
178	1780
180	1800
188	1880
196	1960
225	2250

T10	
Number of teeth z	length [mm]
26	260
32	320
35	350
37	370
40	400
41	410
44	440
45	450
50	500
53	530
55	550
56	560
60	600
61	610
63	630
65	650
66	660

T2,5 - Belt width [mm]				
4	6	8	10	12

T5 - Belt width [mm]							
6	8	10	12	16	20	25	32

T10 - Belt width [mm]						
10	12	16	20	25	32	50

Special width on request.

Code
16 T5 / 420

AT5	
Number of teeth z	length [mm]
45	225
51	255
56	280
60	300
68	340
75	375
78	390
84	420
90	450
91	455
100	500
109	545
120	600
122	610
132	660
142	710
144	720
150	750
156	780
165	825
172	860
195	975
210	1050
225	1125
300	1500

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

AT5 - Belt width [mm]			
10	16	20	25

AT10 - Belt width [mm]			
16	25	32	50

Code
16 AT5 / 450



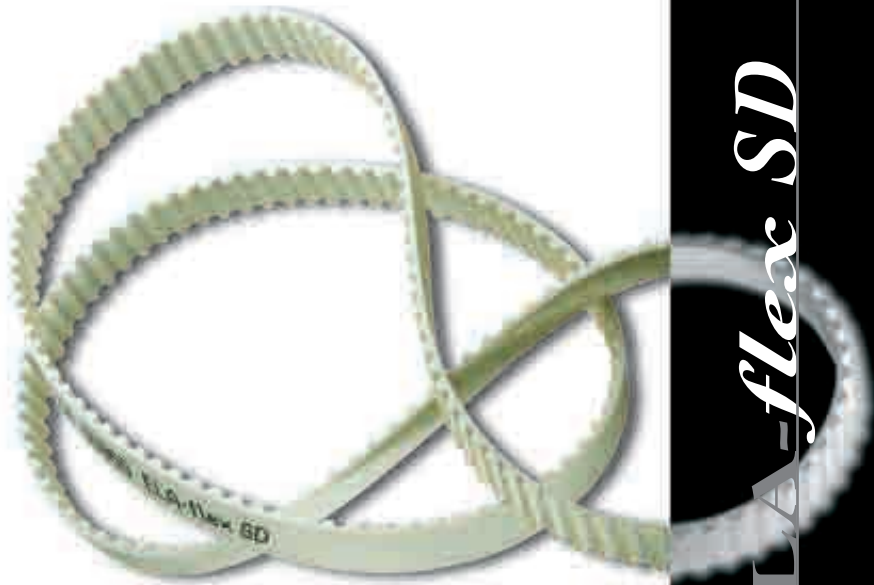
*truly endless*

**ELA-flex SD™** timing belts are manufactured with truly endless high tensile steel tension cords and high wear resistant polyurethane body.

Having no splice or welding, the belts have no weak cross section.

They are therefore ideal for power transmission applications and high load conveying transmissions.

The unique high tech manufacturing process designed by our technicians allows the production of every belt length, tooth by tooth from the minimum of 1500 mm to a maximum of 22000 mm to enable the highest flexibility for the application.



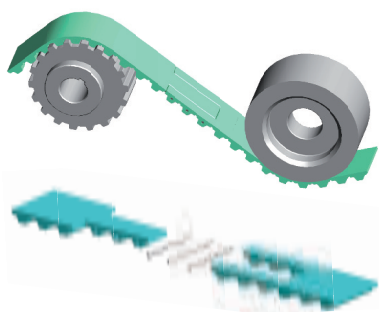
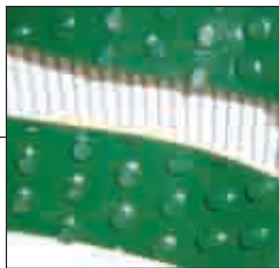
**ELA-flex SD**

**Available also in double sided execution**

T profile	AT profile	INCH profile	HTD profile
T5 T10 T20	AT5 AT10 AT20 ATK10	XL L H XH	5M 8M 14M
STD profile	RTD profile	EAGLE profile	FLAT
5M 8M	5M 8M 14M	5M 8M 14M	F2 F4 F10



# special Belts



## Elatech® *EMF*

**ELATECH® EMF** - Mechanical Fastening System allows in many conveying applications cost savings associated with being able to design equipment around the installation principle of EMF.

## Elatech® *EFT*

**EFT** is **ELATECH®**'s mechanical profile application system specially designed for attaching cleats that cannot be welded onto polyurethane timing belts. It is offered in zinc-coated or stainless steel teeth with either our embedded tooth or total tooth design. The total tooth design replaces the entire tooth of the belt and has two securing threaded holes. The embedded tooth design eliminates metal-to-metal contact, making this a more quiet solution.





## Polyurethane *Film*

Polyurethane films of different thickness and different shore hardness, when applied on **ELATECH**<sup>®</sup> belts, are an ideal solution in many conveying applications in the wood processing, ceramic and glass industry.

On request it is possible to supply FDA approved polyurethane backings.

## Polyamide *Fabric*

The special polyamide fabric backings allow a reduction of the friction coefficient and when applied on teeth, decrease noise in high speed drives. They are very useful in applications with sliding surfaces or product accumulation.

## Polyurethane *Foam*

Polyurethane foams are easily compressible according to the cellular structure of the material. Due to this property, common applications are: labelling equipment, light and/or fragile materials conveying, glass and paper industry, vacuum conveyors.

## PVC

PVC has a high coefficient of friction and provides good resistance to acids. Due to its versatility, it is used in many applications in the paper, glass, ceramic industry, labelling and packing equipment. FDA quality material is suitable for application in food industry processes.

## Rubber *and Tecnogum*

Many different rubber backings in both synthetic and natural rubber are available. Due to the high friction coefficient and high temperature resistance of rubber, these backings are used in many different conveying applications: paper industry, ceramic industry, wood processing industry, glass industry, labelling and packaging machines.

## Cleats *and Mechanical machining*

Several varieties of cleats can be attached on **ELATECH**<sup>®</sup> polyurethane belts for conveying, handling and positioning applications. Belts can be perforated, ground on tooth or back side to optimize special applications.



# Polyurethane belts

