

ELATECH® Profiles table chart

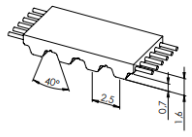
1/2

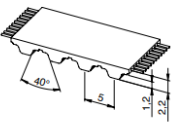
FAMILY TYPES

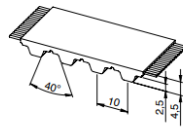
- M** Open end
- F** ELA-Flex SD®
- W** Syncro Max®
- U** iSync®

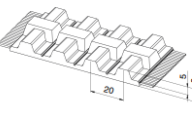
* Dual tooth available
(on request for special cords)

TRAPEZOIDAL T - METRIC PROFILE

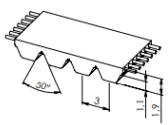
T 2,5	CORDS	A	K	S	HFE	HPL
	AVAILABLE IN	M	•			•

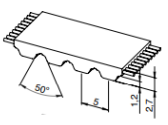
T 5	CORDS	A	K	S	HFE	HPL
	AVAILABLE IN	M*	•	•	•	•
		F*	•	•	•	•
		U*	•			

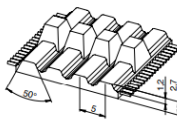
T 10	CORDS	A	K	S	HFE	HPL
	AVAILABLE IN	M*	•	•	•	•
		F*	•	•	•	•
		W		•		
		U*	•			

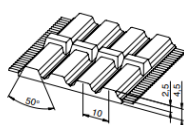
TK20 K13	CORDS	A	K	S	HFE	HPL
	AVAILABLE IN	M	•			

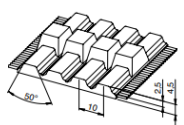
TRAPEZOIDAL AT - METRIC PROFILE

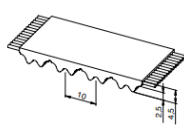
AT3	CORDS	A	K	S	HFE	HPL
	AVAILABLE IN	M	•			•

AT5	CORDS	A	K	S	HFE	HPL
	AVAILABLE IN	M*	•	•	•	•
		F*	•	•	•	•
		U	•			

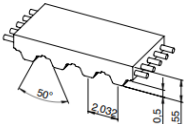
ATK5 K6	CORDS	A	K	S	HFE	HPL
	AVAILABLE IN	M	•	•		
		F	•	•	•	•

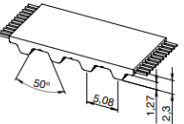
ATK10 K6	CORDS	A	K	S	HFE	HPL
	AVAILABLE IN	M	•	•		
		F	•	•	•	•

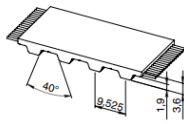
ATK10 K13	CORDS	A	K	S	HFE	HPL
	AVAILABLE IN	M	•	•		

ATM10	CORDS	A	K	S	HFE	HPL
	AVAILABLE IN	F	•	•	•	•

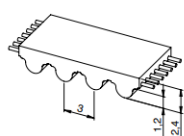
TRAPEZOIDAL IMPERIAL PROFILE

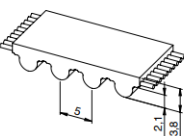
MXL	CORDS	A	K	S	HFE	HPL
	AVAILABLE IN	M	•			•

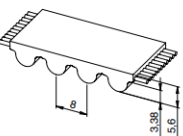
XL	CORDS	A	K	S	HFE	HPL
	AVAILABLE IN	M	•	•	•	•
		F	•	•	•	•
		U	•			

L	CORDS	A	K	S	HFE	HPL
	AVAILABLE IN	M*	•	•	•	•
		F*	•	•	•	•
		U	•			

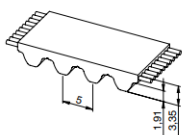
HIGHTORQUE DRIVE PROFILE

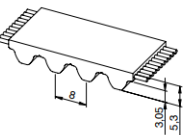
HTD3M	CORDS	A	K	S	HFE	HPL
	AVAILABLE IN	M	•			•

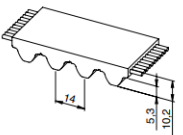
HTD5M	CORDS	A	K	S	HFE	HPL
	AVAILABLE IN	M*	•	•	•	•
		F*	•	•	•	•

HTD8M	CORDS	A	K	S	HFE	HPL
	AVAILABLE IN	M*	•	•	•	•
		F*	•	•	•	•

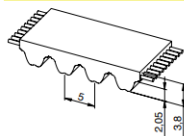
SUPER TORQUE DRIVE PROFILE

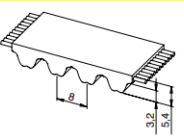
STD5M	CORDS	A	K	S	HFE	HPL
	AVAILABLE IN	M	•	•	•	•
		F	•	•	•	•

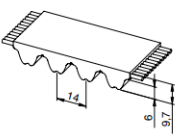
STD8M	CORDS	A	K	S	HFE	HPL
	AVAILABLE IN	M*	•	•	•	•
		F*	•	•	•	•

STD14M	CORDS	A	K	S	HFE	HPL
	AVAILABLE IN	M	•			
		F	•	•	•	•

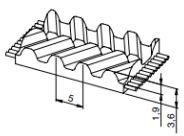
PARABOLIC PROFILE

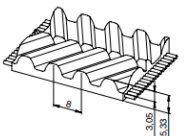
RPD5M	CORDS	A	K	S	HFE	HPL
	AVAILABLE IN	M	•	•	•	•
		F	•	•	•	•

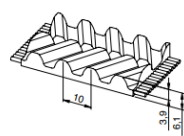
RPD8M	CORDS	A	K	S	HFE	HPL
	AVAILABLE IN	M*	•	•	•	•
		F*	•	•	•	•

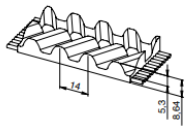
RPD14M	CORDS	A	K	S	HPF	XHPL
	AVAILABLE IN	M*	•	•	•	•
		F*	•	•	•	

HELICAL OFFSET TOOTH PROFILE

EAGLE 5M	CORDS	A	K	S	HFE	HPL
	AVAILABLE IN	M	•			
		F	•			

EAGLE 8M	CORDS	A	K	S	HFE	HPL
	AVAILABLE IN	M	•	•	•	•
		F	•			

EAGLE 10M	CORDS	A	K	S	HFE	HPL
	AVAILABLE IN	M	•			
		F	•			

EAGLE 14M

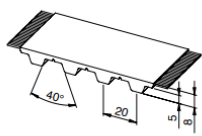
CORDS	A	K	S	HFE	HPF	XHPL
AVAILABLE IN	M	•			•	•
	F	•				

CORD TYPES

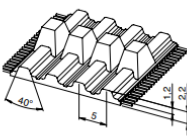
A	Steel	HPF	High Flexibility and Performance
K	Aramid	HPL	High Performance
S	Stainless Steel	XHPL	Extra High Performance
HFE	High Flexibility		

PITCH/PROFILE

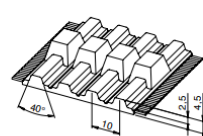
■ T	■ STD	■ FLAT
■ AT	■ RPD	■ TOTAL PROTECTION
■ IMPERIAL	■ EAGLE	■ TT5
■ HTD	■ PG	■ SPECIAL

T 20

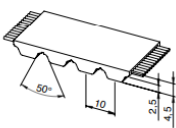
CORDS	A	K	S	HFE	HPL
AVAILABLE IN	M*	•	•	•	
	F*	•	•	•	•

TK5 K6

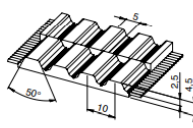
CORDS	A	K	S	HFE	HPL
AVAILABLE IN	M	•	•		

TK10 K6 K13

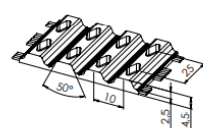
CORDS	A	K	S	HFE	HPL
AVAILABLE IN	M	•	•		

AT10

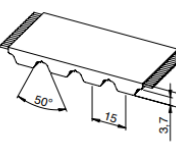
CORDS	A	K	S	HFE	HPL
AVAILABLE IN	M*	•	•	•	•
	F*	•	•	•	•
	U	•			

SAT10

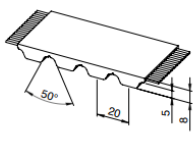
CORDS	A	K	S	HFE	HPL
AVAILABLE IN	M	•	•	•	

ATF10

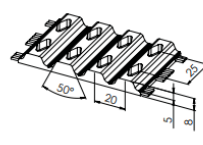
CORDS	A	K	S	HFE	HPL
AVAILABLE IN	M	•			

AT15

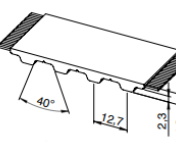
CORDS	A	K	S	HFE	HPL
AVAILABLE IN	F	•	•		

AT20

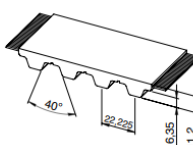
CORDS	A	K	S	HFE	HPL
AVAILABLE IN	M*	•	•	•	•
	F*	•	•	•	•

ATF20

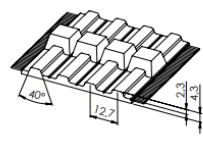
CORDS	A	K	S	HFE	HPL
AVAILABLE IN	M	•			

H

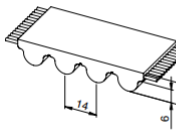
CORDS	A	K	S	HFE	HPL
AVAILABLE IN	M*	•	•	•	
	F*	•	•	•	•
	W	•			

XH

CORDS	A	K	S	HFE	HPL
AVAILABLE IN	M	•	•	•	
	F	•	•	•	•

H K13

CORDS	A	K	S	HFE	HPL
AVAILABLE IN	M	•			

HTD14M

CORDS	A	K	S	HFE	HPL	XHPL
AVAILABLE IN	M*	•				•
	F*	•	•	•	•	

ELATECH® Profiles table chart

2/2

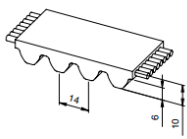
FAMILY TYPES

M Open end
F ELA-Flex SD®
W Syncro Max®
U iSync®

* Dual tooth available
 (on request for special cords)

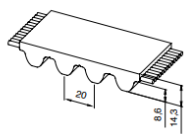
PG ROUNDED PROFILE

PG14M



CORDS	A	K	S	HFE	HPL
AVAILABLE IN	M	•			

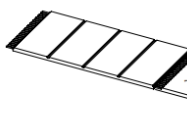
PG20M



CORDS	A	K	S	HFE	HPL
AVAILABLE IN	M	•			

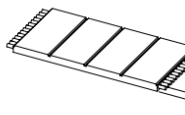
FLAT TOOTH PROFILE

F1



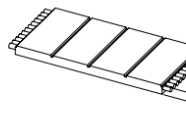
CORDS	A	K	S	HFE	HPL
AVAILABLE IN	M	•	•	•	

F2



CORDS	A	K	S	HFE	HPL
AVAILABLE IN	M	•	•	•	
	F	•	•	•	

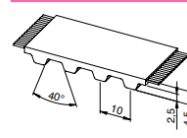
F2.5



CORDS	A	K	S	HFE	HPL
AVAILABLE IN	M	•	•	•	
	F	•	•	•	

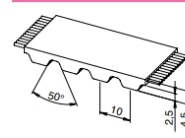
TOTAL PROTECTION TOOTH PROFILE

T10TP Total Protection



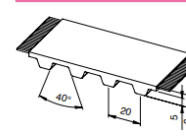
CORDS	A	K	S	HFE	HPL
AVAILABLE IN	M	•			

AT10TP Total Protection



CORDS	A	K	S	HFE	HPL
AVAILABLE IN	M	•			

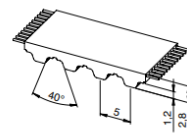
T20TP Total Protection



CORDS	A	K	S	HFE	HPL
AVAILABLE IN	M	•			

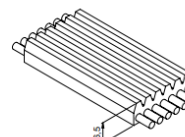
SPECIAL PROFILE

TT5



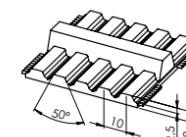
CORDS	A	K	S	HFE	HPL
AVAILABLE IN	M	•	•		

POLY-V K



CORDS	A	K	S	HFE	HPL
AVAILABLE IN	M	•			

ATK10P K13 Solid



CORDS	A	K	S	HFE	HPL
AVAILABLE IN	M				•

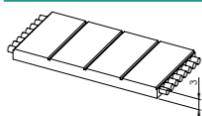
CORD TYPES

A Steel
K Aramid
S Stainless Steel
HFE High Flexibility
HPF High Flexibility and Performance
HPL High Performance
XHPL Extra High Performance

PITCH/PROFILE

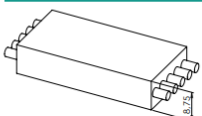
T (Grey)
AT (Orange)
IMPERIAL (Blue)
HTD (Purple)
STD (Red)
RPD (Yellow)
EAGLE (Pink)
PG (Dark Blue)
FLAT (Teal)
TOTAL PROTECTION (Light Pink)
TT5 (Brown)
SPECIAL (Green)

F3



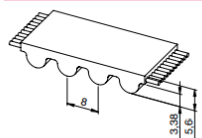
CORDS	A	K	S	HFE	HPL
AVAILABLE IN	M	•	•	•	
	F	•	•	•	

F8.75



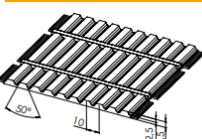
CORDS	A	K	S	HFE	HPL
AVAILABLE IN	M	•			•

HTD8MTP Total Protection



CORDS	A	K	S	HFE	HPL
AVAILABLE IN	M	•			

ATKK10



CORDS	A	K	S	HFE	HPL
AVAILABLE IN	M	•			

FABRIC

Polyamide fabric backings

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.

Polyamide fabrics with antistatic properties are available.

PAZ: Polyamide backing on tooth side.
Reduces coefficient of friction and allows a smoother tooth engagement.

PAR: Polyamide backing on back side.
Reduces coefficient of friction.

PAZ-PAR: Polyamide backing on both tooth and back side

Coefficient of static friction

- Polyurethane on steel $\mu = 0,7$
- Polyamide on steel $\mu = 0,35$
- Polyurethane on aluminum $\mu = 0,8$
- Polyamide on aluminum $\mu = 0,45$

Elatech Code	Description		
TZ11	PAZ Standard		Nylon fabric on teeth
TZ21	PAR Standard		Nylon fabric on back
TZ15	PAZ Antistatic		Antistatic nylon fabric on teeth
TZ25	PAR Antistatic		Antistatic nylon fabric on back

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

Pulley diameter: $C_D \cdot$ Backing Thickness

Elatech Code	Description		Material	Color	Hardness [°Sh A]	Standard thickness [mm]	Max contact temperature	Oil and fat resistance	Coefficient of static friction on steel	FDA food grade	Pulley multiplier C_D
CFX	CELLOFLEX		Microcellular elastomeric polyurethane	brown / yellow	-	3 - 10	+80°C	medium	0,3	No	16
POR	POROL		cellular rubber	black	ca 15	3, 5, 8,10,15	+70°C	medium	0,8	No	6
PY50	PU YELLOW 50		polyurethane	yellow	50	2, 3, 4, 5, 6, 8,10	+70°C	high	0,8	No	20
PY70	PU YELLOW 70		polyurethane	yellow	70	2, 3, 4, 5, 6, 8,10	+80°C	high	0,75	No	25
SYL-B	SYLOMER BLU		Elastomeric PUR	blue	-	6, 12, 25	+70°C	medium	0,5	No	12
SYL-V	SYLOMER GREEN		Elastomeric PUR	green	-	6, 12, 25	+70°C	medium	0,5	No	14
SYL-M	SYLOMER BROWN		Elastomeric PUR	brown	-	6, 12, 25	+70°C	medium	0,5	No	15

PVC has a high coefficient of friction and a 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 allows the application in food industry processes.

Among all synthetic materials and rubber compounds, polyurethane is the material which offers the best resistance to abrasion. Polyurethane films of different thickness and different shore hardness, applied on ELATECH® belts, are an ideal solution in many applications in the wood processing, ceramic and glass industry. On request it is possible to supply polyurethane backings FDA approved.

Pulley diameter: C_D • Backing Thickness

Elatech Code	Description		Material	Color	Hardness [°Sh A]	Standard thickness [mm]	Max contact temperature	Oil and fat resistance	Coefficient of static friction on steel	FDA food grade	Pulley multiplier C_D
FBPU	FISHBONE PU		PU	transparent	70 / 85	4	+70°C	medium	0,7	No	18
FBPVC	FISHBONE PVC		PVC	white	65	4	+80°C	high	0,7	Yes	18
PUR70	PUR70		PU	transparent	70	2 - 5	+70°C	high	0,7	No	25
PUR85	PUR85		PU	transparent	85	2 - 5	+70°C	high	0,6	No	30
PVCW	PVC WHITE		PVC	white	ca 65	2,3	+90°C	medium	1,0	Yes	35
PVCG	PVC GREEN		PVC	green	ca 40	1	+90°C	high	0,9	No	40
SG50R	SUPERGRIP 50 R		Thermoplastic compound	red	55	4,5 - 12	+80°C	medium	0,9	No	12
SG60	SUPERGRIP 60 GL		PVC	green	60	4,5	+90°C	medium	0,9	No	12
SG70	SUPERGRIP 70 Y		PU	yellow	70	4,5	+80°C	high	0,8	No	12
MG	MINIGRIP PVC		PVC	green	ca 65	1,5	+100°C	medium	0,4	No	40

Many different rubber backings in both synthetic and natural rubber are available. Due to rubber's high friction coefficient and high temperature resistance, ELATECH® polyurethane belt with rubber backing is used in many different conveying application: paper industry, ceramic industry, wood processing industry, glass industry, labelling and packaging machines.

Pulley diameter: $C_D \cdot \text{Backing Thickness}$

Elatech Code	Description		Material	Color	Hardness [°Sh A]	Standard thickness [mm]	Max contact temperature	Oil and fat resistance	Coefficient of static friction on steel	FDA food grade	Pulley multiplier Co
SG50T	SUPERGRIP 50 RT		natural rubber	red	40	4,5	+80°C	low	1,0	No	15
LTX	LINATEX		natural rubber	red	ca 40	2,4 - 3,2 - 4,8 6,4 - 8,0 - 9,6	+70°C	low	1,1	No	15
LNP	LINAPLUS		natural rubber	white	ca 40	2,4 - 3,2 - 4,8 6,4 - 8,0 - 9,6	+70°C	low	1,1	Yes	15
LTR	LINATRILE		nitrile rubber	orange	ca 55	3 - 6	+110°C	medium	1,0	No	20
NBR	NITRILE		nitrile rubber	black	65	-	+110°C	high	0,7	No	18
NBR-W	NITRILE		nitrile rubber	white	65	-	+80°C	high	0,7	No	18
TNX	TENAX / ISOGUM		rubber	red	40	2 - 15	+60°C	low	0,75	No	15
VTN	VITON		FKM Fluoroelastomer	black	ca 75	2/4	+275°C	high	0,7	No	30
RP400	YELLOW RUBBER		natural rubber	yellow	ca 35	3 - 4 - 5 - 6 - 8 10 - 12 - 15 20 - 25 - 30	+65°C	low	1,2	No	13
CRX	CORREX		para rubber	brown	ca 40	6 - 10	+60°C	low	0,9	No	15

Covering Materials SPECIAL



Special backings are available in quite a different range of materials to cover even the most demanding design requirements.

Pulley diameter: C_D • Backing Thickness

Elatech Code	Description		Material	Color	Hardness [°Sh A]	Standard thickness [mm]	Max contact temperature	Oil and fat resistance	Coefficient of static friction on steel	FDA food grade	Pulley multiplier Co
APL	APL		Thermoplastic compound	red-purple	55	3,5	+60°C	high	0,7	No	25
SLC	SILICONE		Silicone rubber	transparent	30	3 - 10	+200°C	high	1,0	No	20
SLCF	SILICONE FDA		Silicone rubber	blue	30	3 - 10	+220°C	high	1,1	Yes	20
TG50	TECNOGUM 50		Thermoplastic rubber compound	red	ca 50	1 - 6	+80°C	high	0,7	No	20
TG70	TECNOGUM 70		Thermoplastic rubber compound	red	ca 70	1 - 6	+80°C	high	0,6	No	25
CHRL	CHROME LEATHER		Chrome leather	grey / blue	-	3	+80°C	high	0,8	No	30
TZ26	TZ PAR		HDPE	green	-	0,3	+80°C	high	0,18	No	-
APLM	MULTIRIB		Thermoplastic compound	red	60	3,5	+80°C	medium	-	No	-
APLM-T	MULTIRIB		Thermoplastic compound	transparent	60	3,5	+80°C	medium	-	No	-