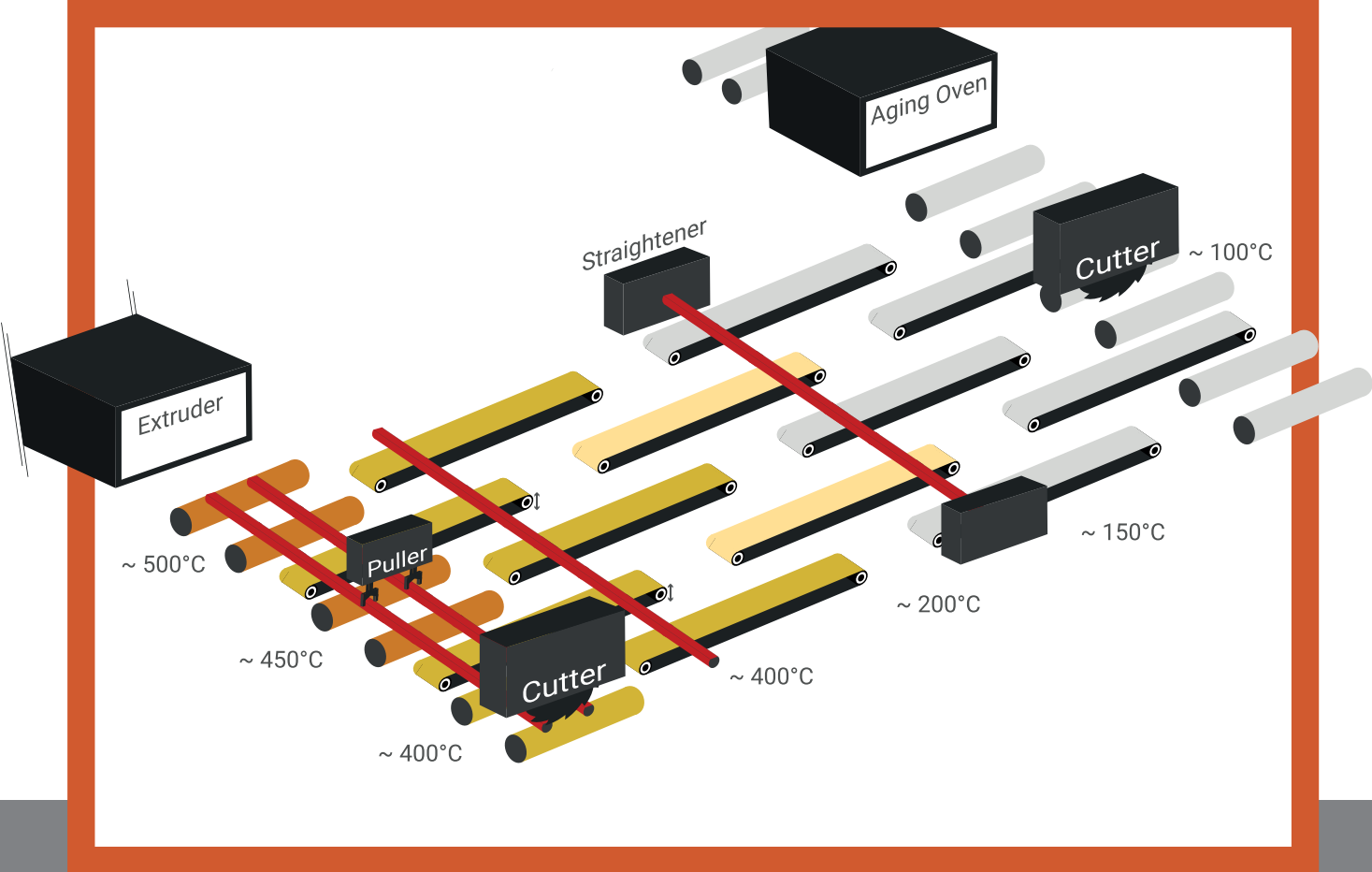


Alufelt
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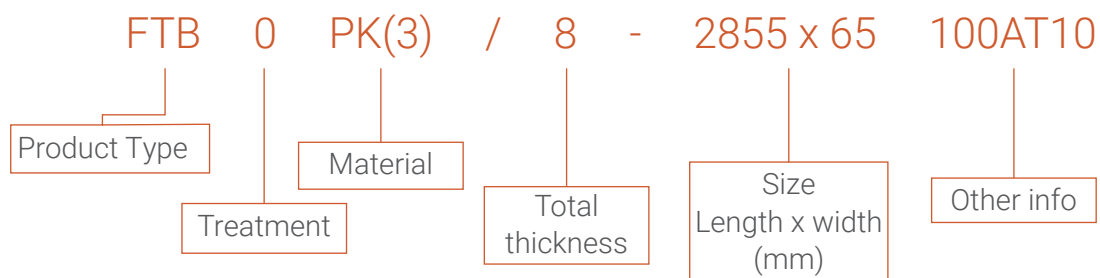
ALUMINUM EXTRUSION

Aluminum Extrusion is a technique used to transform aluminum alloy into objects with a definitive cross-sectional profile for a wide range of uses. The alloy is heated up in the extrusion press and extruded to become profiles. The felt products offered can resist different temperatures (up to 600 Celsius instaneously) and transport profiles of various shapes and weights.

Aluminium extruding process



Nomenclature



Product Type

FB	Felt Belt
FP	Felt Pad
FT	Felt Tube
FTB	Felt Timing belt
SM	Spacing material

Treatment

0	Soft or untreated
00	Semi - hardened
000	Fully - hardened

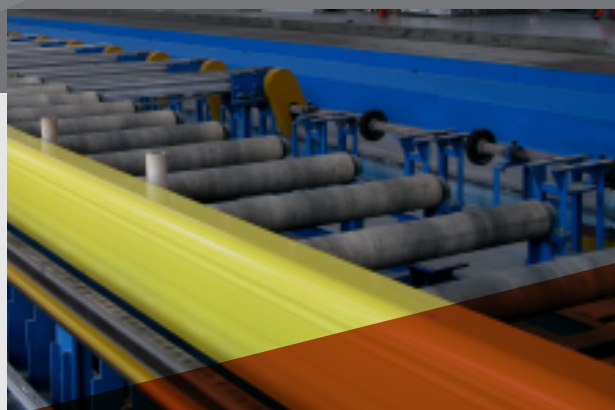
Material

PK (x)	PBO outside + Kevlar inside
K	Kevlar
N	Nomex
P	Polyester

Material Color Temp. resistance

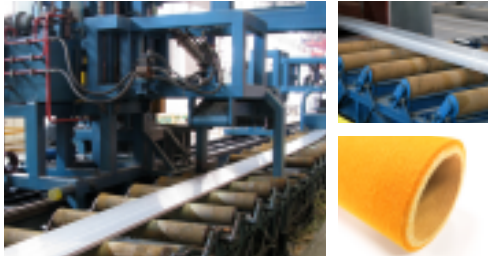
PBO	● Brown	*600°C [500°C]
KEVLAR	● Yellow	*500°C [400°C]
NOMEX	● Ivory	*280°C [210°C]
POLYESTER	○ White	210°C

*instantaneous



OUR PRODUCTS

Felt tube



Inside Ø (mm)	18, 20, 24, 25, 28, 31, 34, 37, 38, 40, 41, 43, 45, 48, 50, 51, 52, 53, 55, 56, 59, 60, 61, 63, 65, 68, 70, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 95, 96, 100, 101, 102, 103, 105, 106, 109, 110, 111, 112, 114, 115, 116, 117, 118, 120, 126, 127, 128, 129, 130, 133, 135, 140, 141, 143, 145, 150, 152, 161, 167, 176
Length (mm)	Any length
Thickness (mm)	4 - 12
Density (g/m ² .mm)	Untreated: 380 ±5 Semi-treated: 420 ±5 Fully-treated: 550 ±5
Hardness (Shore A)	Untreated: 50 ±5 Semi-treated: 60 ±5 Fully-treated: 85 ±5
Treatment	Resin available

Felt belt



Width (mm)	20 - 2.000
Length (mm)	1.900 - 20.000
Thickness (mm)	6 - 12
Density (g/m ² .mm)	450 ±5
Hardness (Shore A)	Untreated: 50 ±5 Semi-treated: 60 ±5 Fully-treated: 85 ±5

Felt pad



Width (mm)	10 - 2.000
Length (mm)	up to 25.000
Thickness (mm)	6 - 12
Density (g/m ² .mm)	Untreated: 370 ±5 Semi-treated: 420 ±5 Fully-treated: 520 ±5
PBO	
Density (g/m ² .mm)	Untreated: 340 ±5 Semi-treated: 360 ±5 Fully-treated: 440 ±5
Kevlar, Nomex, Polyester	
Hardness (Shore A)	Untreated: 55 ±5 Semi-treated: 68 ±5 Fully-treated: 80 ±5
Treatment	Resin available

Spacing material



Colour	Ivory
Thickness (mm)	0.8 - 2.0
Density (g/m ² .mm)	210 - 440
Size	Custom made

FABRICATION CAPABILITIES

For **felt belts**, it is possible to apply a hidden mechanical joint to overcome the difficulty of disassembling the machine. However, one thing to keep in mind is to have sure the materials are replaced in time to prevent the aluminum profiles from being scratched by the mechanical joint.

Top view



Bottom view



For avoiding mis-tracking of felt belts, it is possible to apply a **PU V-guide** or a **metal chain** on the bottom side of the belt. However, the metal chain is a very old method and it is likely the aluminum profiles could be scratched by getting in contact with the chain. Please contact us for further details.

Top view

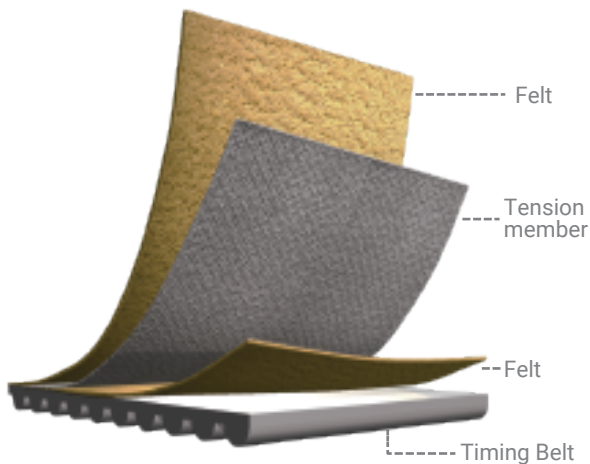


Bottom view



HEAVY PROFILES

Felt timing belts



Felt timing belts are timing belts laminated with felt products. They are the perfect choice for conveying heavy profiles.

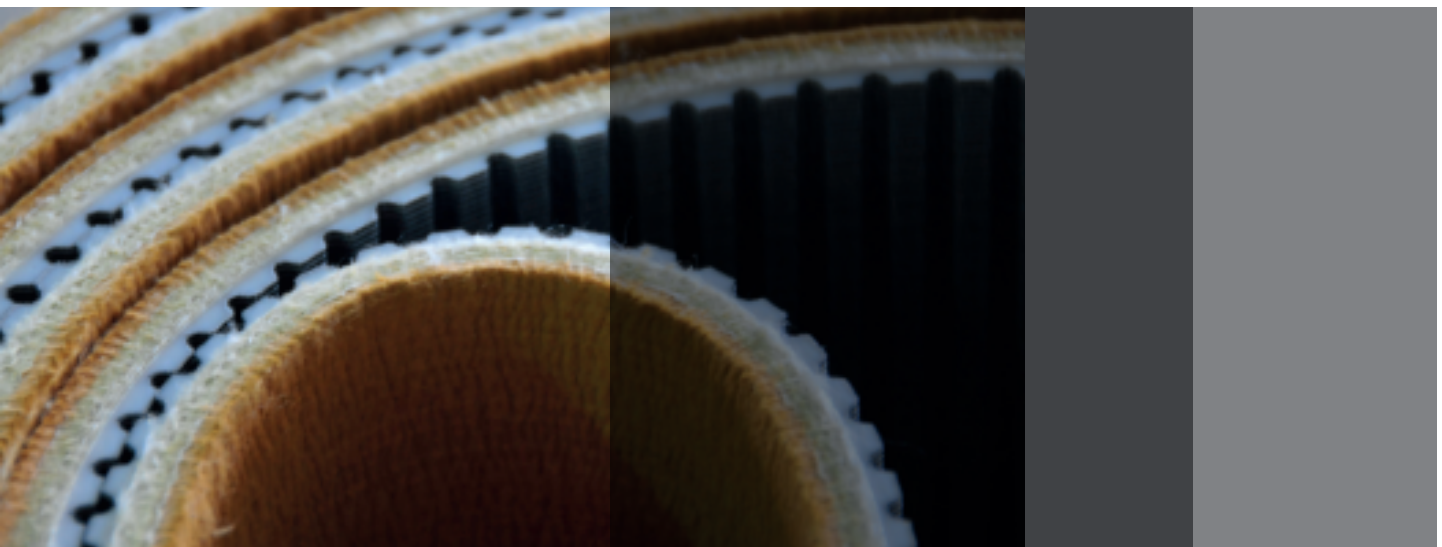
- No skidding possible with heavily loaded aluminum profiles
- Straightening of profiles is reduced to a minimum
- No delamination possible between timing belts and felts

Wide range of timing belts for selection

Timing belt technical data

Type	Breaking Str. (N)	Max. Str.(N)	Max. Str. Jointed(N)	Weight (kg/m)
100T20	48000	13500	6750	0.77
100AT10	60000	16000	8000	0.64
100AT10-K13	60000	16000	8000	0.71
100AT20	65000	25200	12600	0.97
100HTD14M	84100	24700	12350	1.13
100HTD14M-K13	84100	24700	12350	1.20

*More types of timing belts are available. Please inquire with our sales team



ALUMINUM COIL WRAPPER

Aluminum sheets are hot and cold coiled at different temperatures to be at different thicknesses. They are used for many industries such as beverage, electrical appliances, equipments and more.

Currently there are two types of coil wrapper belts offered:

- Solid woven type
- High temperature resistant type

Solid woven

- Truly endless
- Excellent elastic characteristics
- High force elongation
- Resistant to cut, impact, oil, acid, base and salt
- Suitable for steel sheet wrapping



High temperature resistant

- Truly endless
- Excellent elastic characteristics
- High force elongation
- High temperature resistance (up to 400°C)
- Resistant to cut, impact, oil, acid, base and salt
- Suitable for hot rolled aluminium wrapping



Coil wrapper belt technical data

Type	Solid woven	High temperature
Series	CMU-SW	CMU-HSW
Total thickness (mm)	4.0 - 8.0	6.0 - 10.0
Tension member	Solid woven	Kevlar woven
Top coating material	PU	Kevlar
Top coating thickness (mm)	0.5 - 2.5	-
Top coating color	Green	Yellow
3% Elongation strength (N/mm)	90 - 100	100 - 120
Temperature range (°C)	-20 to +90	-20 to +400

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