



English

Index

•	About us	2
•	Product information	3
•	Cable-Haul-Off-Belts	4
•	Cable-Haul-Off-Belts Profiles	6
•	Shore hardness coding	7
•	Conveyer- and Processing Belts	9
•	Spiral-Core-Winding-Belts	10
•	Driving-Flat-Belts	11
•	Picture Gallery	12

About us

AFH-Antriebstechnik GmbH is a company which is specialized in the production and sale of belts.

The newest process engineering combined with an endless weaving tradition of over 50 years permit a product that can't be beaten with regard of quality and reliability.

Qualified technical specialists with industrial experience of many years secure a production on a constant high level.

Individuality is our standard

We produce according to the customer's request. Therefore each article is specially designed, customized and adjusted to all requirements.

We are looking forward to your inquiry!



Product information

Fabric:

Traditional weaving technics, like the endless weaving, have mostly disappeared in the production of belts as the procedures nearly always seem to be too complex and too expensive. However, if you consider quality, reliability and life time, it is due to an economic reasonable application in many different category groups. We consider our products to have no weaknesses (no welding, seaming or gluing bindings).

As a result you can retain the following advantages:

- Best possible life-time
- Extreme high breaking strength possible
- Homogeneous surface without any hardening or thickening
- Smoothly moving belt
- No wear and tear / sign of tiredness of bindings

We produce fabrics of Polyester, Nomex or Kevlar (Aramide-fibre).

Coatings:

According to the weaving procedure our belts are coated endless, too. This process permits the very best compound between the basic fabric and the coating. We do not use any joining substance. The following materials can be coated on the pulley or cable side in every requested thickness:

PVC or PUC - in the hardness from 35 to 90 Shore A
Silicone - heat resistant up to 220 degrees Celsius.

Cable-Haul-Off-Belts

Basic product:

fabric made of Polyester or Kevlar (Aramide fibre)

- For an extremely high breaking strength
- Low stretching
- Smoothly moving belt

Thickness of the fabric:

- As required from 2,5 to 4,5 mm

Coating:

PVC or PUC

- High abrasion / friction resistance
- Mostly persistent against acids and soapy water
- Available in the hardness from 35 to 90 Shore A

Silicone

- Heat resistance up to 220 degrees Celsius
- Anti-sticking effect

Cable-Haul-Off-Belts

Quality 1250:

Polyester fabric for tensile strength
190 kp per 1 cm belt width
breaking strength 500 kp per cm belt width

Thickness of the fabric: 3,5mm

Quality 2000:

Polyester fabric for tensile strength
250 kp per 1 cm belt width
breaking strength 1200 kp per cm belt width

Thickness of the fabric: 4,5mm

Quality 5000:

Kevlar fabric for tensile strength
500 kp per 1 cm belt width
breaking strength 2000 kp per cm belt width

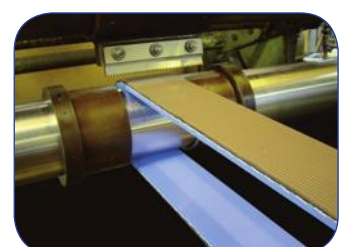
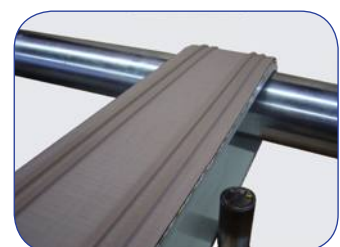
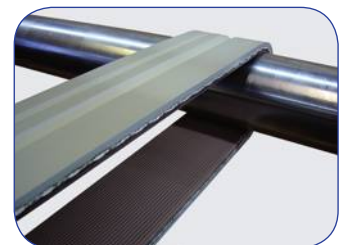
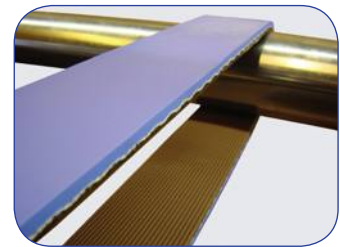
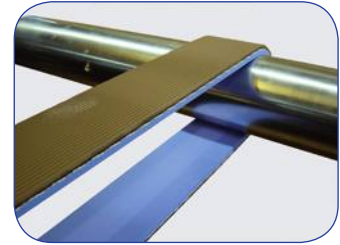
Thickness of the fabric: 3,5mm

All qualities can be provided with the following coatings:

PVC, PUC and silicone-caoutchouc-coatings, type 4660

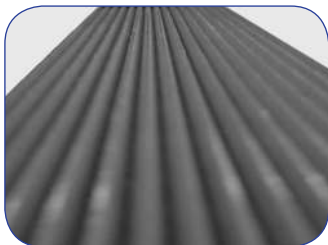
Heat resistance up to 80 degrees Celsius
for PVC and PUC-coating

Heat resistance up to 220 degrees Celsius
for silicone-caoutchouc-coating, type 4660



Cable-Haul-Off-Belts Profiles

Profiles pulley-side:



Poly-V-Profile L



Poly-V-Profile M



5-V-5

Profiles cable-side:

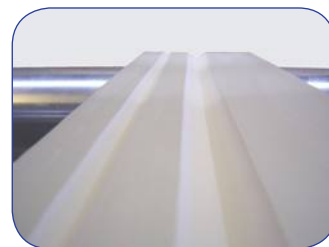
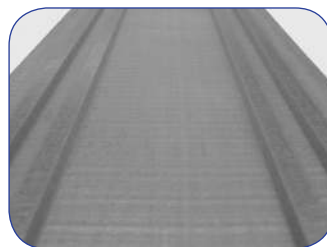
Profiles-V:

90 degrees	100 degrees
110 degrees	116 degrees
120 degrees	136 degrees
150 degrees	

Profiles half-round:

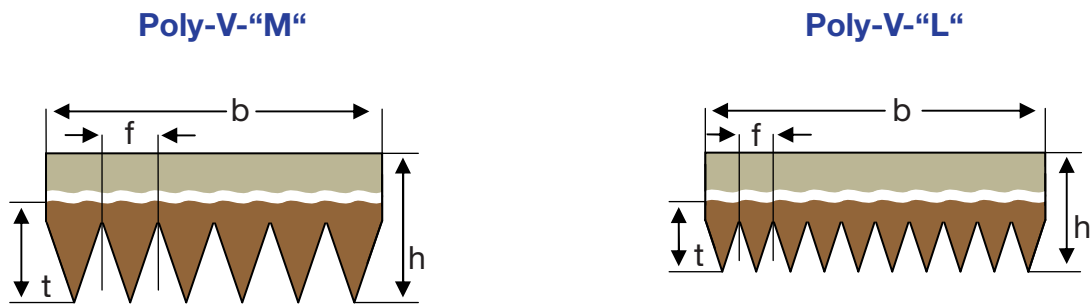
R 6,0 mm	R 9,0 mm
R 11,5 mm	R 12,5 mm
R 17,5 mm	R 20,0 mm
R 26,0 mm	R 40,0 mm
R 80,0 mm	R 110,0 mm

Further profiles on request.



Cable-Haul-Off-Belts Profiles

Pulley-Side-Profile Poly-V-“M”/“L”



Belt		Profile “L”	Profile “M”
width	f	3/16 = 4,76mm	3/8 = 9,52mm
thickness of belt	h	as required	as required
thickness of Pulley-side	t (mm)	7	12
width of belt	$b = x \cdot f$ (mm)	$4,76 \cdot x$	$9,52 \cdot x$
angle of profile		40°	40°

Pulley-side coating: 80 or 90 Shore-A (as required)

Cable-side coating: 35-90 Shore-A (as required)

Thickness of fabric:

- qual. 1250 ca. 3,5mm
- qual. 2000 ca. 4,5mm
- qual. 5000 ca. 3,5mm

Shore hardness coding

Referring to the shore hardness of the cable-side
our belts are colour-coated on the pulley-side.

35 - 40 Shore A	pulley-side	blue	
45 - 50 Shore A	pulley-side	yellow	
55 - 60 Shore A	pulley-side	green	
65 - 70 Shore A	pulley-side	black	
75 - 80 Shore A	pulley-side	red	
90 - 95 Shore A	pulley-side	colourless	

KEVLAR-belts and belts with a pulley-side profile as well as belts as a special layer construction are excluded from the colour code.

Conveyer- and Processing Belts

Basic product:

fabric made of Polyester, Nomex

- Heat resistant up to 220 degrees Celsius
- Low stretching
- Smoothly moving belt

Thickness of the fabric:

- As required from 2,5 to 4,5 mm

Coating:

PVC or PUC

- High abrasion / friction resistance
- Mostly persistent against acids and soapy water
- Available in the hardness from 35 to 90 Shore A
- Heat resistance up to 80 degrees Celsius

Silicone

- Heat resistance up to 220 degrees Celsius
- Anti-sticking effect

Data sheet:

Construction: Seamless woven carrying material out of Polyester or Nomex-fibre

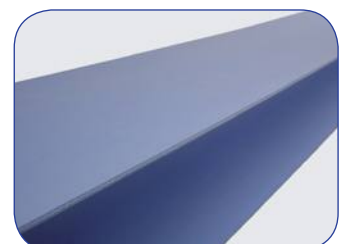
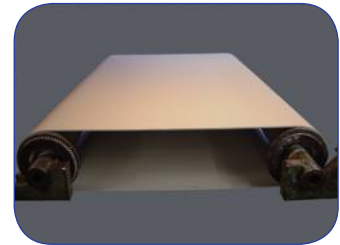
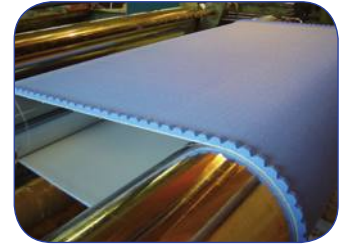
Width: 30 mm to maximum 2.250 mm

Length: 1.200 mm to 25.000 mm

Edges: Cut and thermo-fixed

All qualities can be provided with the following coatings:

- PVC, PUC in shore hardness from 35 to 90 Shore A and silicone-caoutchouc-coating approx. 55 Shore A
- Heat resistance up to 80 degrees Celsius for PVC and PUC-coating
- Heat resistance up to 220 degrees Celsius for silicone-caoutchouc-coating



Spiral-Core-Winding-Belts

Basic product:

fabric made of Polyester, Nomex or Kevlar (Aramide fibre)

- For an extremely high breaking strength
- Low stretching
- With woven sides

Thickness of the fabric:

- As required from 2,0 to 4,0 mm

Coating:

PVC or PUC

- High abrasion / friction resistance
- Very good coefficient of friction
- Optimal diagonal stiffness
- Coated edges of the belt
- Available in the hardness from 35 to 90 Shore A

Data sheet:

Construction: Seamless woven carrying material with PVC-coating

Fabric: Polyester-cord-yarn or Kevlar

Hardness of coating:

from 35 to 90 Shore A

Tensile strength per 1 cm width:

Polyester

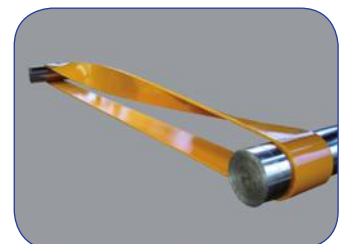
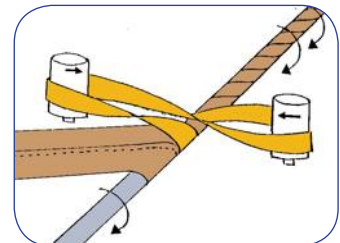
Fabric thickness: 2 mm = 125 kp

3 mm = 250 kp

4 mm = 375 kp

Kevlar

Fabric thickness: 4 mm = 500 kp



Driving-Flat-Belts

Basic product:

fabric made of Polyester, Nomex or Kevlar (Aramide fibre)

- for an extremely high breaking strength
- low stretching
- with woven sides

Thickness of the fabric:

- as required from 2,0 to 4,0 mm

Coating:

PVC or PUC

- high abrasion / friction resistance
- very good coefficient of friction
- optimal diagonal stiffness
- excellent power transmission
- coated edges of the belt
- available in the hardness from 35 to 90 Shore A

Data sheet:

Construction: Seamless woven carrying material with PVC-coating

Fabric: Polyester-cord-yarn or Kevlar

Hardness of coating:
from 35 to 90 Shore A

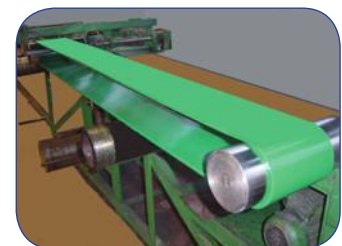
Tensile strength per 1 cm width:

Polyester

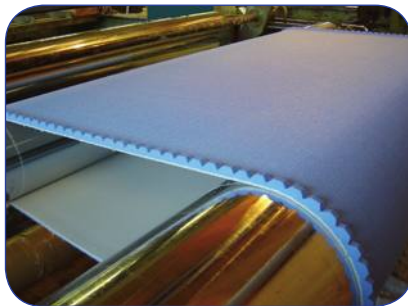
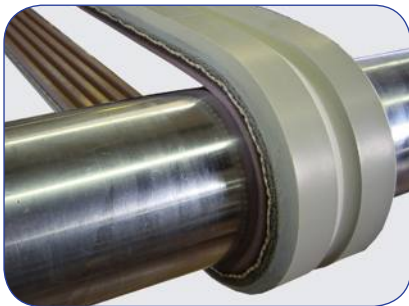
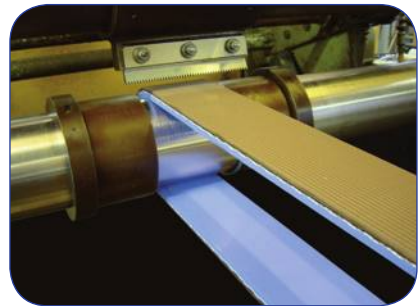
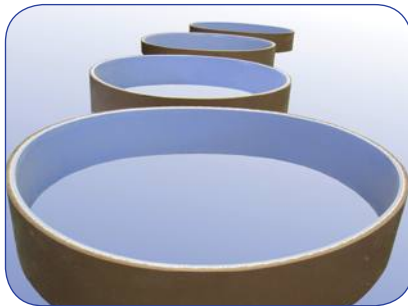
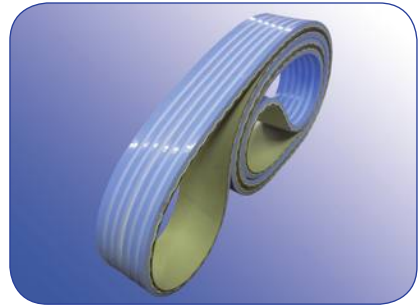
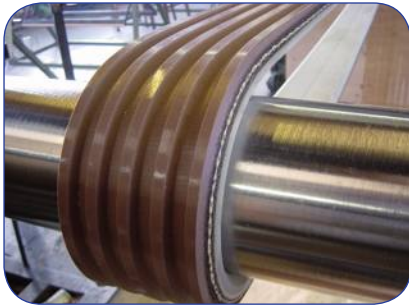
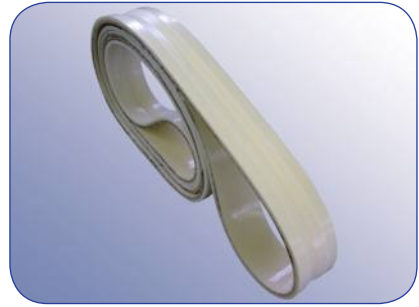
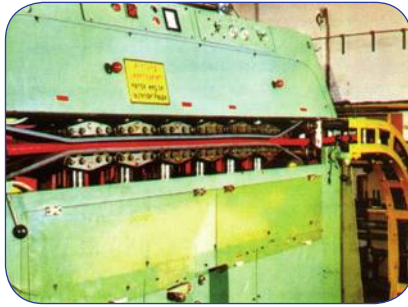
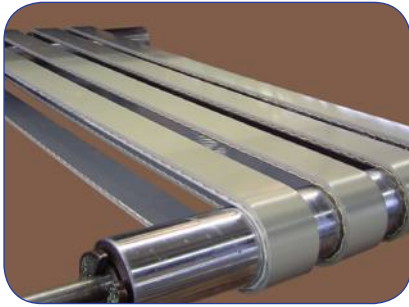
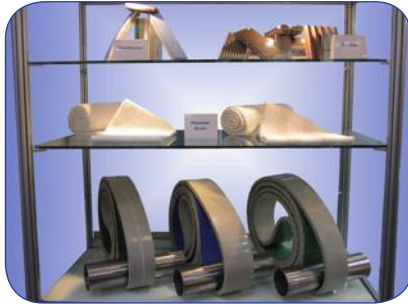
Fabric thickness: 2 mm = 125 kp
3 mm = 250 kp
4 mm = 375 kp

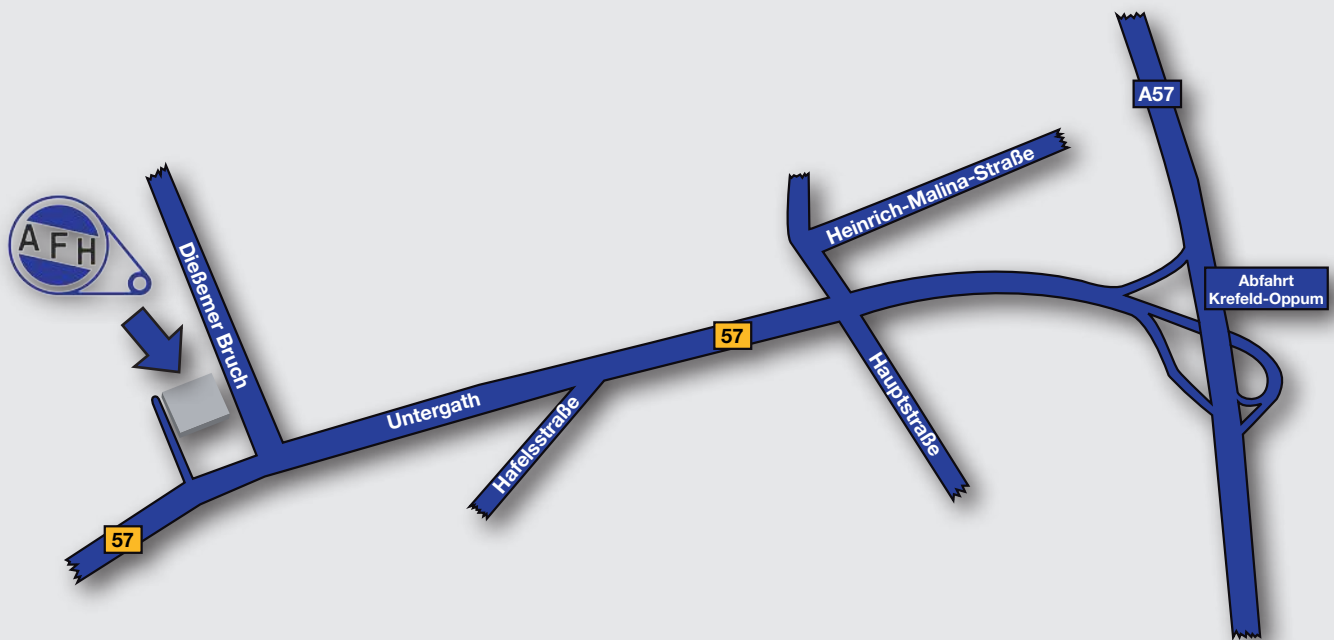
Kevlar

Fabric thickness: 4 mm = 500 kp



Picture Gallery





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