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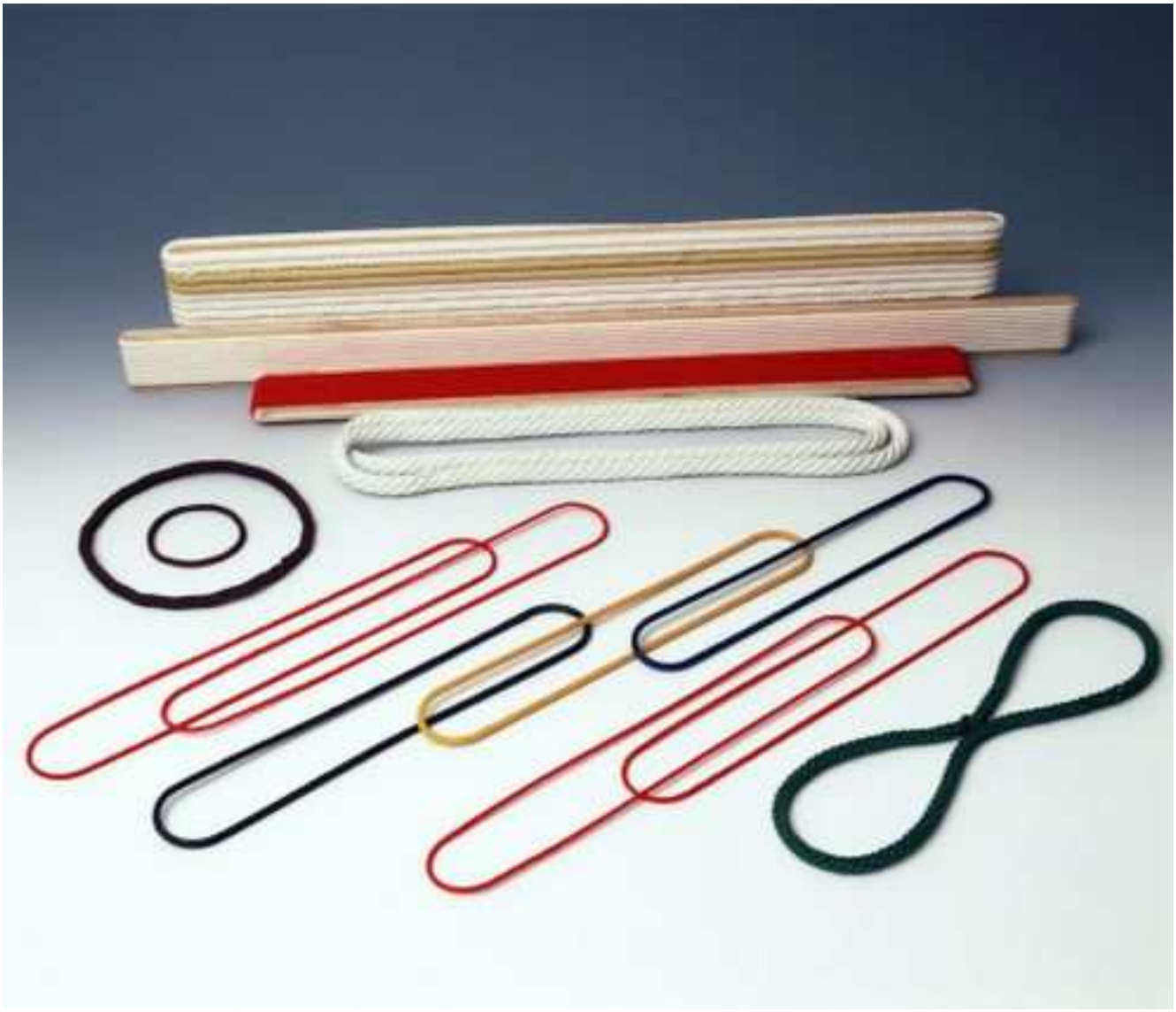
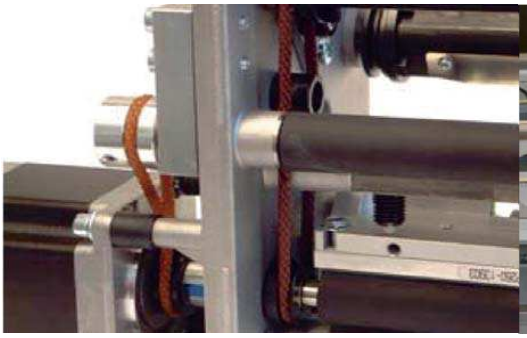
Driving gear and conveyor technology
Profiled belts
Continuous round belts turned and plaited

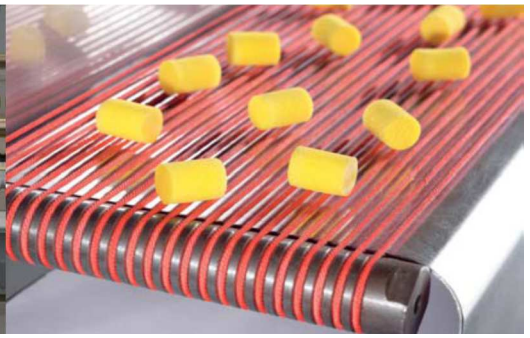
# Endless turned round belts





*Vulkollan round belt in a label printer*

*Endless turned round belt made of Kevlar in a transport line for cover frames*



*Polyester round belt PVA red in a transport machine*

# Endless turned round belts

Our endless wound round belts are endlessly wound from a homogeneous strand or cord and endlessly spliced without a slub. For special applications, you can take advantage of our own in-house technologies to vulcanise the inner splice or have it designed as a special splice. This will increase the tensile strength by up to 60%. Elastic models have a welded core.

Thanks to their special design, our round belts run very smoothly and quietly. Their high flexibility also enables very small minimum pulley diameters of three times the belt diameter and, on some models, speeds of up to 70,000 rpm. However, a maximum speed of 60 m/s should not be exceeded.

As we manufacture the cords ourselves in our own mill, we are always able to respond flexibly to customer requests, regardless of the diameter you require or whether you wish to use mono-filaments, multi-filaments, films or multi-component yarns. We even cut the square cords for our Vulkollan round belts ourselves from 40 kg blocks. We guarantee highest quality from the raw materials we use up to the final product.

We have machinery on site that we predominantly developed and constructed ourselves and that is specifically tailored to our products. Thus, we are able to manufacture products from a diameter of 0.8 mm on computer-controlled machines – the only ones of their kind anywhere in the world – with maximum precision. We continually develop our products further and ensure we stay in close contact with our customers, allowing us to constantly adapt our products to ever-changing application conditions or develop brand new models.

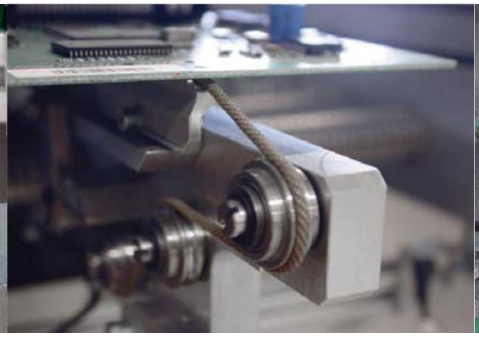
All textile models can be impregnated with a wide range of coatings to protect the textile fibres from abrasion, to increase the friction coefficient or realise certain criteria in accordance with customer specifications. We also use special thermal setting processes to ensure that models with limited extensibility extend as little as possible when in use. We gladly advise you on the right model from our range and assist you with new designs, with our experience of many decades.

| | |
|---|---|
| Elastic types: | PU, Vulkollan |
| Semi-elastic types: | PA.6, Set-polyester, Nylon HE |
| Types with limited extensibility: | Polyester, Nomex, Nomex-PTFE, Polyester-PTFE, Kevlar/Twaron, PA.6 antistatic, PBO |

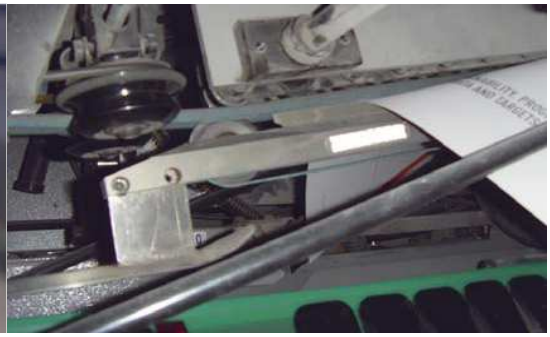
We recommend the use of a tensioner for semi-elastic models; a tensioner is always required for models with limited extensibility.

Application: high-speed drives in the textile and engineering industry, precision machinery, sorting systems, grinding machines, special machinery, label printers, winding machines, transport elements in high temperature range, card readers, cleaning machines, wood working machines, paper industry, packaging systems, conveying machinery, roller guides, chemical industry, metal working machines, etc.

*Endless turned round belt PU green, suitable for exceptional transmissions*



*3 mm PBO round belt supporting a circuit board in a soldering machine at 380° C*



*2 mm polyester round belt in a folding machine for paper*

## Types

| Material | Available ∅ | Temperature-resistant °C | Elasticity | Coefficient of friction µ to polished V2A steel [1] | Fixed to lessen elasticity |
|---|---|---|---|---|---|
| PU – 5-strand | 3 – 10 mm | -30°C - + 80°C | High | 0,30 µ | No |
| Vulkollan | 3 – 10 mm | -40°C - +140°C | High | 0,22 µ | No |
| PA.6 (Perlon) | 2 – 12 mm | -35°C - +120°C | Low | 0,11 µ | Yes |
| Set-Polyester | 1,8 – 10 mm | -30°C - +100°C | Low | 0,14 µ | Yes |
| Nylon HE | 1,5 – 10 mm | -30°C - + 80°C | Low | 0,14 µ | Yes |
| Polyester | 0,8 – 15 mm | -40°C - +160°C | No | 0,12 µ | Yes |
| Nomex | 1,5 – 15 mm | -40°C - +220°C | No | 0,18 µ | Yes |
| Nomex-PTFE | 4 – 12 mm | -40°C - +220°C | No | 0,05 µ | Yes |
| Polyester-PTFE | 4 – 12 mm | -40°C - +160°C | No | 0,05 µ | Yes |
| Kevlar/Twaron | 2 – 12 mm | -40°C - +240°C | No | 0,15 µ | Yes |
| PA.6 antistatic | 2 – 10 mm | -35°C - +120°C | No | 0,10 µ | Yes |
| PBO | 3 – 10 mm | -50°C - +480°C | No | 0,18 µ | Yes |

Smaller and larger ∅ are technically feasible, however we do not have the raw materials in stock.

Temperature-resistance depends on the duration and the extent of mechanical stress and various environmental effects.

Available minimum perimeters on request.

All types that are fixed to lesson their elasticity are delivered on a tensioning panel.

## Belt coatings

| Material | Temperature-resistant up to °C | Coefficient of friction µ to polished V2A Steel [1] | Coefficient of friction µ to high density polyethylen [1] |
|---|---|---|---|
| PVA red | 150° C | 0,15 µ | 0,10 µ |
| PVA yellow | 150° C | 0,15 µ | 0,10 µ |
| PVA/L | 110° C | 0,33 µ | 0,26 µ |
| EVA | 140° C | 0,30 µ | 0,25 µ |
| Rz 100 red + white | 130° C | 0,20 µ | 0,18 µ |

Please note that the friction coefficient can vary according to the operation temperature.

The coatings PVA/L + EVA can be delivered in various colours such as red, blue, green, yellow, black, etc.

Further coatings for special applications on request.

We gladly advise you in choosing material combinations and support you with technical calculations to find the most suitable belt type for your needs.

Chemical resistance on request.

[1] According to Pflug test specification SPPN 91.001

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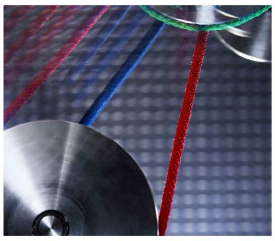
Company profile



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Testing Service

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Welded timing belts
in short lengths

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Round belts for
heat-setting machines

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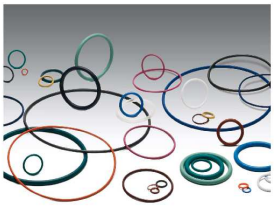
Endless injected round belts



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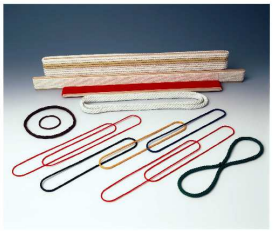
Endless turned round belts



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Endless plaited round belts

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Hooked belts

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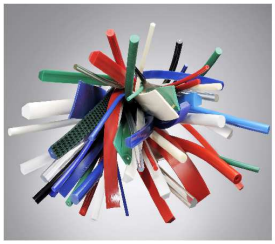
PU round- and profile belts



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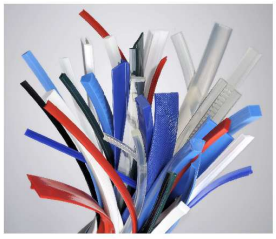
PU profile belts and
special profiles



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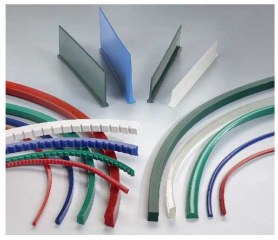
PU tracking guides, cleats
and guides



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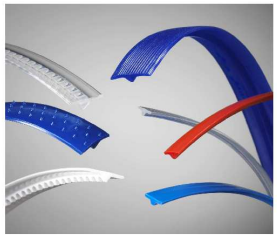
PU-V-Guide belts
compliant to EU/FDA



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Food line

Types for the food industry compliant to EU/FDA

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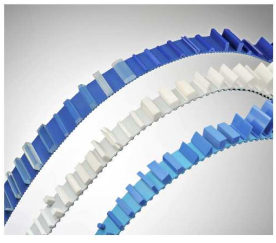
PU cleats and block profiles



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PU Poly-V belts

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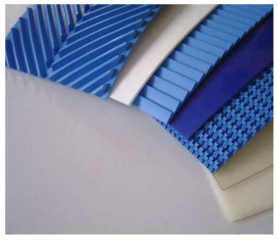
PU coatings





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