

Belts for the Textile Industry



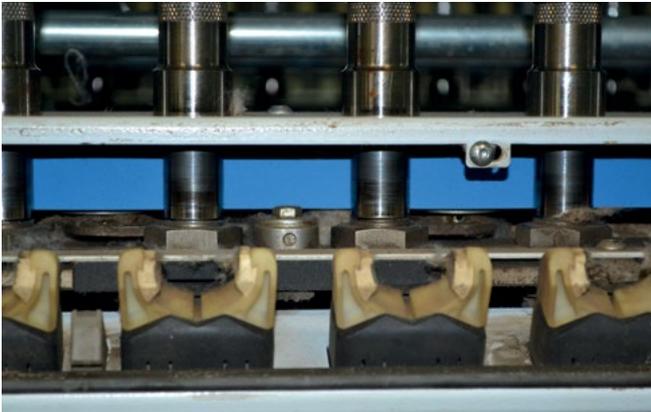


RAPPLON® High Performance Tangential Belts

Yarn-spinning, twisting and finishing are all demanding processes that require high-quality tangential belts. Our never-fail range of RAPPLON® High Performance Tangential belts, made with selected premium components, works with state-of-the-art equipment to deliver state-of-the-art performance, maximising output.

Feature	Advantage	Benefit
Wear-resistant, high-performance, slippage-free premium elastomer cover	Resists spindle stops without difficulty Highest efficiency Constant spindle speed	Longer lifetime Performance at highest speed Uniform yarn quality
Modern belt design with polyester fabrics	Low working tension Improved dimensional stability	Reduced energy consumption No elongation
QuickSplice joining	Easy and fast belt installation Uniform thickness Flexible joining area	Less downtime Constant spindle speed Easy running over small pulleys
Permanently antistatic non-fraying belt edge	No fluff accumulation	Smooth production process
Classic belt design with polyamide foils	Solid belt construction	Trouble-free operation, even in difficult conditions

Our range of RAPPLON® QuickSplice Tangential belts with highly flexible component elements offers unique features and benefits. Quick hassle-free installation, improved dimensional stability, and energy savings are just a few reasons why customers prefer this range.



The superior elastomer cover can handle spindle stops without difficulty.



Moreover, our dimensionally stable polyester fabric means there's never any need for re-tensioning, even with extra-long ring spinning units (>1000 spindles).



RAPPLON® standard range for the Textile Industry

Item number	Description	Feature	Thickness [mm]	k1% / k6% in N/mm dynamic	Min. pulley diameter [mm]
RAPPLON® Process belts / Fibre Preparation					
54551	UU N16 SSQ	Smooth surface, no fluff accumulation	1,10	1,60	20
54585	GG N15 FFQ HC	Chemical resistant	1,40	1,50	15
54735	GG S02.11 FFC	Classic, no fluff accumulation	1,10	2,00	10
54990	PVC 16-4	Lateral stability	2,70	27,00	80
RAPPLON® Classic Tangential belts					
54738	GG S04.17 RFC	Extended service life	1,70	4,00	20
54729	GG S06.19 RFC green	XNBR Rubber, high wear resistant	1,90	6,00	40
54734	GG S06.18 RFC	Highly efficient	1,80	6,00	40
54369	GG S09.22 RRC black	XNBR Rubber, high wear resistant	2,20	9,00	60
54370	GG S09.22 RRC green	XNBR Rubber, high wear resistant	2,20	9,00	60
54528	GG S11.25 RRC green	XNBR Rubber, high wear resistant	2,50	11,00	60
54530	GG S11.26 RFC	XNBR Rubber, high wear resistant	2,60	11,00	60
54286	GG S15.30 RRC green	XNBR Rubber, high wear resistant	3,10	15,00	80
54287	GG S18.34 RRC green	XNBR Rubber, high wear resistant	3,40	18,00	150
54749	GG S18.40 RRC green	XNBR Rubber, high wear resistant	4,00	18,00	160
54680	GG A50.30 RRQ	XNBR Rubber, high wear resistant	3,00	50,00	60
RAPPLON® Drive belts					
54289	GG S11 LRC	Highly efficient	3,25	11,00	80
54703	GT S06 RC	Highly efficient	1.40	6.00	40
54704	GT S09 FC	Highly efficient	1.90	9.00	40



Process & Conveyor belts for the Textile Industry

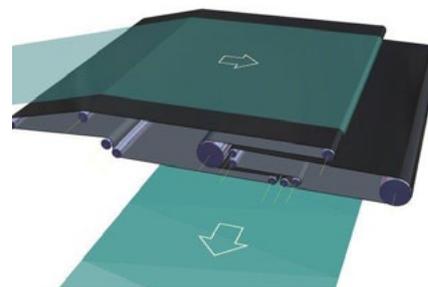
Refinement processes such as dyeing and printing require smooth and reliable belting solutions. Ammeraal Beltech's process and conveyor belts provide an efficient flow of bales, fibres, bobbins and packages. Whether it's for plane or spike lattice conveyors, blower rooms, aprons, spinning machines or high-speed cross lappers, we've got the right belt.

Today, nonwoven technology is a booming market for many different industries. Ammeraal Beltech supplies belts designed specifically to meet nonwoven needs. These belts feature smooth low friction surfaces with excellent antistatic and lateral-stability properties to achieve a continuously high-quality finished product.

Our cross-lapper belts are dimensionally stable and highly conductive under operating conditions, and with their excellent release properties, there's no tearing of the web. What's more, an extremely thin coating of either PVC or TPU ensures a low belt weight, making the belt ideal for high-speed operation while also preventing elongation or accumulation of the web.



Conveyor belt with smooth belt surface for yarn roll transport.



Principle of Cross lapper belt.

Process and conveyor belts

Cover type/material	Application and features
575760 Flexam EM 8/2 0+04 Green AS FG	Blow rooms, general transport, antistatic
579379 Ropanyl EM 4/1 00+02 black M1 AS HC NL	Crosslapper, high conductive, very flexible
574019 Ropanyl EM 8/2 00+02 Black M1 AS	Low speed crosslapper, antistatic
573650 Flexam EF 10/2 A18+07 Green FG	Lattice conveyor, lateral flexibility
572860 Nonex EM 8/2 0+05 green FG	Lattice conveyor, general transport, antistatic, oil and grease resistant
577390 Ropanyl EM 8/2 00+02 dark green AS FG	General transport, smooth surface, antistatic, very flexible
578970 Ropanol EM 10/2 0+00 black AS HC	High conductive



Roll Covering Materials

Here are some examples of our materials, available in either self-adhesive or non-stick format:

1. NI-P22 beige
2. NR-P22 beige
3. PV-A15 white
4. NR-P18 grey
5. PV-00 transparent
6. PV-P14 blue DS
7. PF-P6 grey FG



High-quality belting solutions for extremely adhesive covering.

Properties

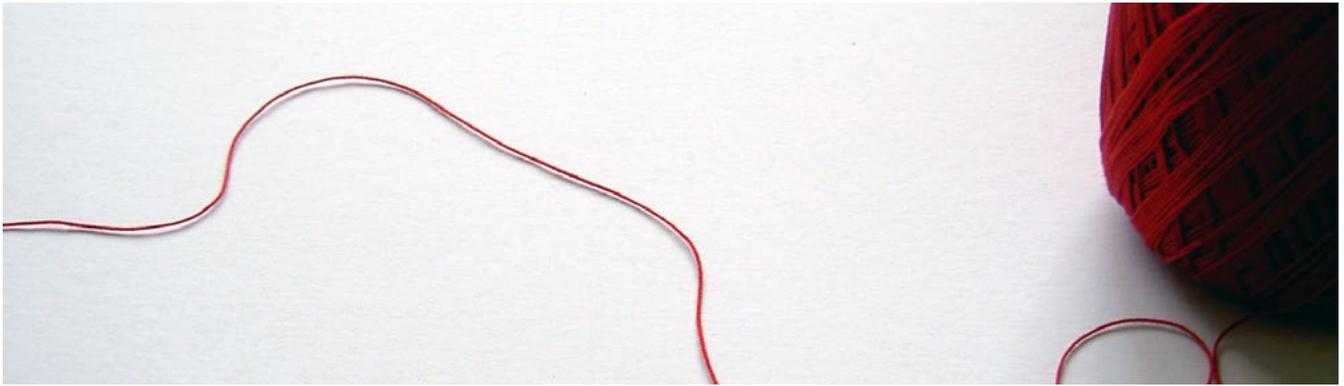
Type	Material	Temp.
NI	Nitrile rubber	120° C
NR	Natural rubber	100° C
PV	PVC	80° C
PF	PVC Oil & fat resistant	80° C

Features of the roll covering range:

- Abrasion-resistant
- Antistatic, oil- and grease-resistant
- Varying degrees of hardness for both high and low grip
- Narrow tolerances
- Many colours and profiles available
- Available in self-adhesive format



A highly adhesive roller covering is being used on a weaving machine. This is only one of many examples that demonstrate our high-quality solutions at work in the textile industry.



Endless Woven Belting in the Textile Industry

There are some textile applications where standard process and conveyor belts simply can't be used. When extreme levels of temperature resistance, strength, or tension are needed, seamless and spliceless belts are the ideal choice. Ammeraal Beltech offers tailor-made seamless and spliceless solutions. For instance, the piddler pulling-belt shown below was custom-designed to customer specifications.

Piddler belt in action during viscose production.



Endless woven belts provide many advantages over other belts:

- Endless and spliceless design; no seam
- Constant line speeds and proper tracking
- Excellent tensile strength and elongation properties
- Operating temperatures from -80°C up to +350°C
- Belt tension of up to 1,000 N/mm belt width
- Speeds of up to 1,200 m/min
- Wide range of coatings and profiles
- Flexible enough to wrap around small rollers and knife edges

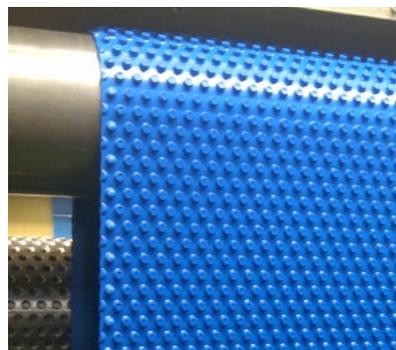


Image of a nipple-profile A17 belt during its profiling process. Customised with a variety of coatings and profiles, the belts are manufactured using a quality-assurance system based on ISO 9001:2008.

Key customer benefits

- Long lifetime:
 - Chemical- and wear-resistant PVC top cover
- No speed difference:
 - Identical twin fabric construction in polyester
 - Seamless fabric, coating and profile
- Grip and tracking:
 - Twin non-slip (Herringbone or Bermuda) profile



Ammeraal Beltech's in-house weaving and coating capabilities make it possible to offer a wide range of endless and non-endless fabric constructions, using natural (e.g. cotton, flax) and synthetic yarns (e.g. polyester, polyamide, aramid).

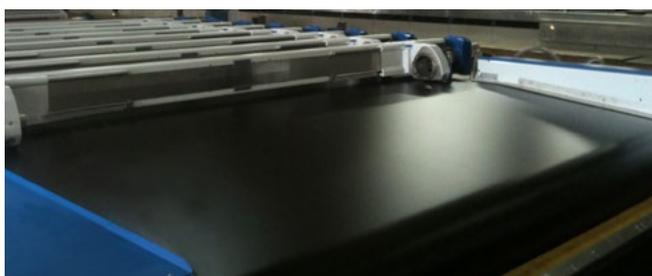
Covers can be supplied in different colours, degrees of hardness and in combinations of both. The range of cover materials include polyester, PVC, polyurethane, polyethylene and silicones, and there are up to 77 standard profiles available.

Printing blankets, modular belts and PTFE

Printing blankets – The AmPrint range

Ammeraal Beltech also presents solutions for textile printing. Developed after close work with both end users and original equipment manufacturers, the AmPrint range is tailored to meet textile printing process requirements. Our belting range covers all printing technologies:

- Flat bed screen printing
- Rotary screen printing
- Digital printing
- Table printing



Customer benefits:

- Minimal downtime:
 - On-site splicing possibility across entire range of belts
- High printing precision:
 - Balanced construction to cover the application needs
 - Extended control of belt uniformity
 - Smooth surface finish for a perfect printing result
 - High lateral stability to avoid curling edges
- Extended lifetime, easy maintenance:
 - Outstanding chemical resistance to allow use of common solvents and prevent delamination
 - Special construction design to avoid fabric fraying
 - Wear-resistant top surface
 - Low elongation rates

Our Range

AmPrint U 230	Force at 1% elongation (ISO 21181)	25N/mm
	Belt thickness	2.65mm
	Number of fabrics	2
	Maximum belt width	3700
AmPrint U 120	Force at 1% elongation (ISO 21181)	20N/mm
	Belt thickness	2.00mm
	Number of fabrics	1
	Maximum belt width	3000mm

Modular belts

Modular belts are particularly well-suited for use in the textile industry, thanks to their durability, their versatility and their maintenance-friendly design. Whether they are performing as feeder, transfer or discharge belts, our long-lasting modular solutions will function reliably and efficiently while saving you time in installation and repairs.



uni MPB G – can be used for non-wovens, thanks to grip surface



uni NTB – our smallest pitch belt for really small transfers



uni M-QNB – closed smooth surface prevents catching or tearing



uni M-QNB rubbertop – high friction grip surface

PTFE coated fabric belts

Our high-heat and chemical/abrasion-resistant PTFE and Silicone-coated fabric tapes and belts are ideal for use in textile lamination, drying, printing and dyeing, as well as for nonwovens. Our PTFE-coated process belts can work with single or double-heated surfaces (a two-belt system) to deliver clean release of laminated material. They can also withstand the heat of drying ovens, including ovens used after dyeing or printing, and are ideal for conveying and cooling nonwovens.



Kippax dryer

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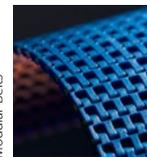
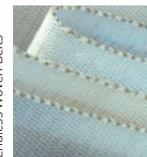
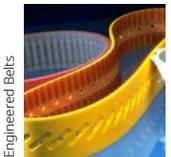
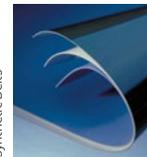
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