

Belts for the Textile industry



The full belting range:

- Tangential Belts
- EC-Tapes
- Process and Conveyor Belts
- Roller Coverings
- Endless Woven Belts
- Timing Belts
- Engineered Belts
- Knitting Tapes



Ammeraal Beltech is a leading manufacturer of Process and Conveyor belts and has a unique reputation for developing innovative solutions for belting applications.

Ammeraal Beltech offers belt types of various qualities for the three important textile sectors: yarn-spinning, weaving and nonwovens. Yarn-spinning and weaving manufacturers mainly make use of our RAPPLON® high performance flat belts, which offer the best characteristics in tangential, spindle, circular knitting and machine tapes, and of course drive belts too. In the nonwovens industry the demand is more for process and conveyor belts with smooth surfaces, antistatic and laterally stable properties.

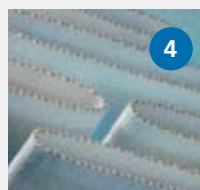
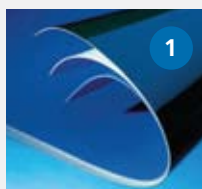
We at *Ammeraal Beltech* are able to offer a full range of belting products to meet the ever-increasing performance demands and to provide well considered solutions for all belting processes in the textile industry.

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Innovative belting solutions for the textile industry

Our comprehensive range is built around six product groups:

1. Process & Conveyor belts
2. High performance flat belts
3. Modular belts
4. Endless woven belts
5. Timing belts
6. Engineered belts



Ammeraal Beltech offers belting solutions for the entire textile production line - from cotton cleaning and fibre preparation, through tuft-feeding and carding all the way to spinning and twisting applications.

In almost every machine you will find *Ammeraal Beltech* products:

- Combing machines
- Carding machines
- Roving and drawing frames
- Speed frame
- Texturing machines
- Twisting machines
- Knurling machines
- Knitting machines
- Ring spinning machines
- Rotor spinning machines
- Washing machines
- ... and many more



RAPPLON® QuickSplice Tangential Belts

Yarn spinning, twisting and finishing processes are demanding applications for tangential belts. Highest performance means maintaining constant high spindle speeds during the lifetime - essential criteria for yarn producers who have to guarantee a top yarn quality.

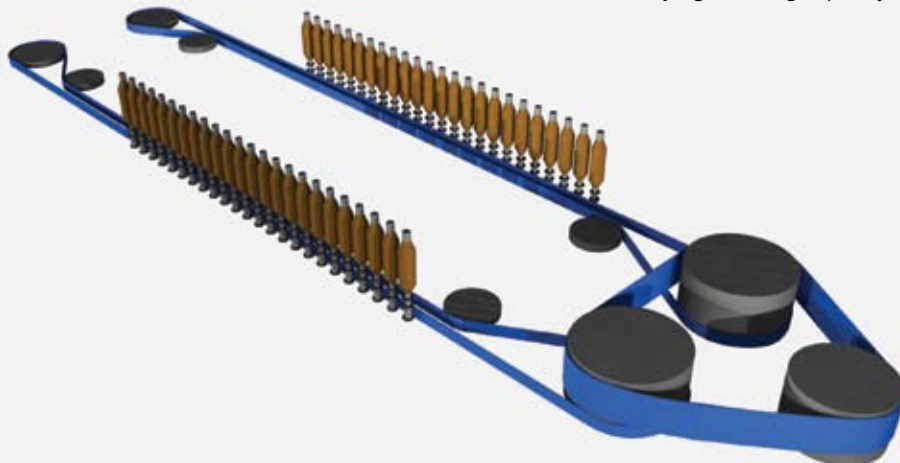
Our reliable range of RAPPLON® QuickSplice Tangential belts, made of selected high-grade raw materials, offers real advantageous benefits to our customers.

The specifically designed tension member copes with highest speeds and features an extreme flexibility for run over small pulleys and back flexings. No need of re-tensioning even for long machines fitted with more than 1000 spindles.

Spinning mills are running 24/7 and look for utmost efficiency.



RAPPLON® QuickSplice Tangential belts are specifically designed for long ringspinning machines.



The superior XNBR surface resists to spindle stops without difficulty while maintaining the spindle speed.

Customer benefits

- Longest lifetime
 - › Extremely flexible belt
 - › Wear resistant XNBR elastomer cover
 - › Sturdy and flexible endless joints
- Reduced energy consumption
 - › Unique polyester fabric tension member
 - › Elastomer cover with maximum efficiency
- Improved dimensional stability
 - › Modern tension member materials
 - › Insensitive to moisture fluctuations
 - › No downtime
- Easy belt installation
 - › Belt surfaces with different colours avoiding twists in the machine
 - › QuickSplice belts and tools for on-site fitting
 - › Low tension polyester fabric
- Uniform yarn quality
 - › Slippage-free elastomer cover
 - › Modern tension member without need to retension
- No fluff accumulation
 - › Permanently antistatic
 - › Perfect non-fraying belt edge quality

RAPPLON® EC-Tapes

The EC-Tape is the most economical and efficient spindle tape you can choose. It is dimensionally stable and antistatic. The RAPPLON® EC-Tape is light in weight, contains high flexibility and has high friction values. Its abrasive resistant cover contributes to considerable energy savings for your spinning frame. Top surface of the EC-Tape is designed to move freely over the braked spindle whilst the elastomer coated side of the EC-Tape ensures a slip free transmission.

The surface of the RAPPLON® EC-Tape guarantees constant spindle speed although one spindle is braked.



Main Data:

- Tape thickness: 0.55 mm
- Tape weight: 0.56 kg/m²
- Construction: Synthetic sandwich spindle tape
- Wharve side: Mixed fabric
- Pulley side: High friction elastomer

Available delivery methods		
Art. No.	Length	Width
Full slab		
545480	50 m	600 mm
Dispenser boxes		
545410	5 x 50 m	11 mm
545430	5 x 50 m	13 mm
EC-Glue		
545500	10 ml	

Main RAPPLON® EC-Tape features:

- Spindle speed up to 25'000 rpm
- Energy saving
- Increased productivity
- Dimensionally stable
- Permanently antistatic
- High flexibility
- Slippage-free transmission
- Consistent spindle speed
- Easy to install



To endless the RAPPLON® EC-Tape askiver like the HS 51 is used to skive the two ends of the tape.



After applying a thin coat of EC-Glue on one skived end, the RAPPLON® EC-Tape has to be placed into the P 51/120 heat press for approximately 3 minutes.

Innovative features: QuickSplice system and RappCalc program

RAPPLON® QuickSplice jointing system

A perfect combination with the RAPPLON® QuickSplice System which warrants a perfect endless splice of your tangential belts, independently if made on-site or in the workshop.

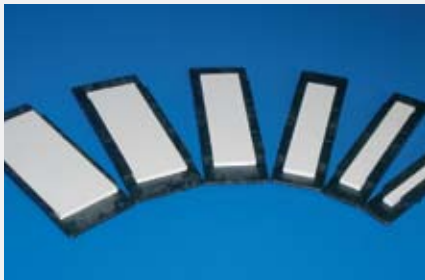
The compact design of our new QSP 60LF plus makes splicing safe and easy even in tight surroundings.



Customer benefits:

- Consistent thickness over joining area
- Easy and fast on-site splicing
- Bi-directional running
- Visually confirmed splice quality
- Perfectly straight joining area

Guide rails are available in every width between 10 and 60 mm ensuring always perfect alignment over the joining area.

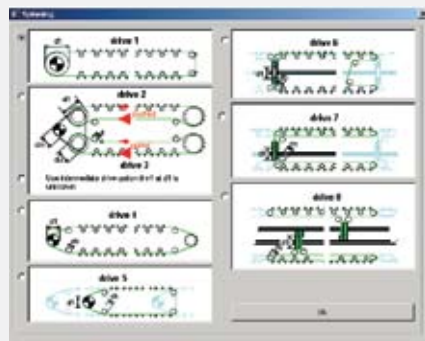


Tailor made tools, like our MFT 40 punching equipment, are really appreciated by users. Small, efficient and cost effective. Save time - Save money with QuickSplice technologies.



RappCalc calculation program

The Rapplon calculation Program offers high comfort, simple data input and data changes for easy optimization of tangential drives and belts. Rappcalc 8.2 always leads you to the best solution.



RappCalc Features:

- Power Transmission Calculation
- Roller Drive Calculation
- Tangential Belt Calculation
- Simple data input
- Comprehensive print of results
- Storage of data for re-utilization
- Optimization for all sort of drives

RAPPLON® standard range for the textile industry

Item no.	Description	Belt & Application info	Features & Characteristics
54253	RAPPLON® GG 06.18 RF	Power transmission, Yarn spinning & twisting	Shock absorbing, abrasion resistant, High efficient XNBR elastomer cover
54254	RAPPLON® GG 09.24 RF	Power transmission, Yarn spinning & twisting	Shock absorbing, abrasion resistant, High efficient XNBR elastomer cover
54295	RAPPLON® GG 11.25 RR	Power transmission, Yarn spinning & twisting	Shock absorbing, abrasion resistant, High efficient XNBR elastomer cover
54256	RAPPLON® GG 12.30 RR	Power transmission, Yarn spinning & twisting	Shock absorbing, abrasion resistant, High efficient XNBR elastomer cover
54257	RAPPLON® GG 15.30 RR	Power transmission, Yarn spinning & twisting	Shock absorbing, abrasion resistant, High efficient XNBR elastomer cover
54277	RAPPLON® GG 15.40 RR	Power transmission, Yarn spinning & twisting	Shock absorbing, abrasion resistant, High efficient XNBR elastomer cover
54258	RAPPLON® GG 18.33 RR	Power transmission, Yarn spinning & twisting	Shock absorbing, abrasion resistant, High efficient XNBR elastomer cover
54259	RAPPLON® GG 18.40 RR	Power transmission, Yarn spinning & twisting	Shock absorbing, abrasion resistant, High efficient XNBR elastomer cover
54626	RAPPLON® GG E15.20 RRQ	Power transmission, Yarn spinning & twisting	Resistant belt edge, insensitive to moisture and temperature, dimensional stable, QuickSplice joining
54618	RAPPLON® GG E15.25 RRQ	Power transmission, Yarn spinning & twisting	Resistant belt edge, insensitive to moisture and temperature, dimensional stable, QuickSplice joining
54609	RAPPLON® GG E15.30 RRQ	Power transmission, Yarn spinning & twisting	Resistant belt edge, insensitive to moisture and temperature, dimensional stable, QuickSplice joining
54614	RAPPLON® GG E8.20 RRQ	Power transmission, Yarn spinning & twisting	Resistant belt edge, insensitive to moisture and temperature, dimensional stable, QuickSplice joining
54047	RAPPLON® LT 12	Power transmission (cone drive)	Oil & grease resistant, suitable for high start-up torques
54292	RAPPLON® GR 12	Power transmission	Shock absorbing, suitable for high start-up torques, high efficient NBR elastomer cover
54002	RAPPLON® GT 04	Power transmission	Shock absorbing, abrasion resistant, High efficient NBR elastomer cover
54003	RAPPLON® GT 06	Power transmission	Shock absorbing, abrasion resistant, High efficient NBR elastomer cover
54545	RAPPLON® UU 10E RFQ	Sliver belt for cards	QuickSplice joining
54104	RAPPLON® GG 02 FF	Sliver transport belt on combers	Shock absorbing, abrasion resistant, Special smooth NBR elastomer cover
54606	RAPPLON® PG E5 SFQ	Sliver belt for cards	QuickSplice joining, Special smooth cover
54543	RAPPLON® UU 8E RSQ white FDA	Sliver belt for cards	QuickSplice joining, Special smooth cover
545480	RAPPLON® EC-Tape	Economic spindle tape for Ring Spinning	Energy saving, available in dispenser boxes 11/13 mm width
54055	RAPPLON® SSB 84	High performance spindle tape for Carpet industry and Twisting	Shock absorbing, abrasion resistant, High efficient NBR elastomer cover

Process & Conveyor belts for the textile industry

In the refinement processes like colourizing and printing smooth and reliable solutions are required. Furthermore *Ammeraal Beltech's* process and conveyor belts provide efficient flow of bales, fibres, bobbins and packages. Is it in plane or spikes lattice conveyors, blower rooms, aprons, spinning machines, high-speed cross lappers, we give you the answer.

Conveyor belt with smooth surface for yarn roll transport.



Nonwovens technology is a booming market – the production capacity of a modern nonwovens plant with tangle-fleece cards is around 4,000 m²/h. Nonwovens are used in many different industries, not only in the textile industry. *Ammeraal Beltech* supplies many facilities for nonwoven equipment.

In the Nonwoven industry there is demand for belts with smooth low friction surfaces, which have excellent antistatic and laterally stable properties to achieve a continuously high quality finished product.

Ammeraal Beltech offers solutions for nonwoven technology worldwide and supply many customers - not just the textile industry - using cross-lapper equipment.

Ammeraal Beltech Cross-lapper belts are dimensionally stable and highly conductive during operating conditions with no tearing of the web due to excellent release properties.

The extremely thin coating of either PVC or TPU ensures a low belt weight that makes the belt very suitable for high-speed operation and prevents elongation and accumulation of the web.



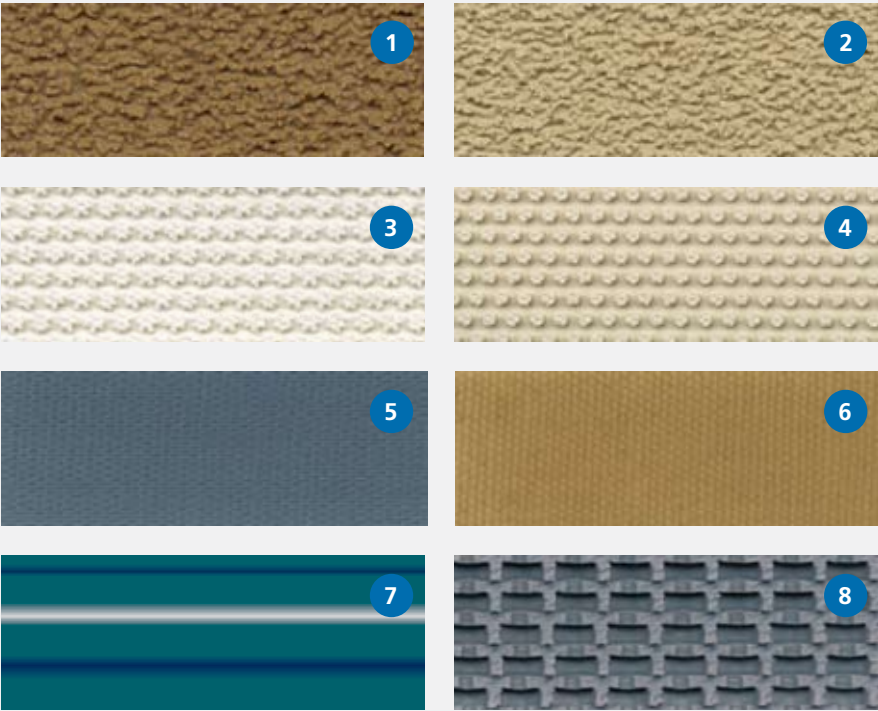
Cross lapper belt

Process and conveyor belts	
Cover type/material	Application and features
Flexam EM 8/2 0+04 Green AS FG	Blow rooms, general transport, antistatic
Flexam EM 4/1 01+02 Black AS HC	Crosslapper, high conductive, very flexible
Flexam EF 10/2 A18+07 Green FG	Lattice conveyor, lateral flexibility
Nonex EM 8/2 0+05 D. Green AS	Lattice conveyor, general transport, antistatic, oil and grease resistant
Ropanyl EM 10/2 0+03 Green AS	general transport, smooth surface, antistatic, very flexible
Ropanol EF 12/2 00+00 Transparent	Yarn roll transport, high force/elongation value, impregnated bottom
Ropanol EM 8/2 0+00 (PVC) Black AS HC	Highly antistatic
SBR EC 7/4 01+01 Tan	Aprons

Roller covering materials

Some examples of our roller covering materials, available in self-adhesive or non-stick quality:

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



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
 - Hardnesses for high and low grip
 - Narrow tolerances
 - Many colours and profiles available
 - Available in self adhesive quality



High-quality belting for extremely adhesive covering.



High adhesive roller coverings are used on a weaving machine. Only one of many examples that demonstrate our high quality in the textile industry.

Endless Woven Belting in the textile industry

There are textile applications where standard process and conveyor belts cannot be used. Where extreme levels of strength, tension and temperature resistance are needed, seamless and spliceless belts are the perfect choice. *Ammeraal Beltech* offers excellent tailor-made solutions. The piddler pulling belt is designed to customers' requirements.

Piddler belt in action during viscose production



Key customer benefits:

- Chemical resistant top cover
- Identical (= twin) fabric construction in polyester
- Identical (= twin) cover construction in wear resistant PVC
- Identical (= twin) non-slip fishbone profile
- Seamless fabric, cover and 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 numerous natural and synthetic yarns such as cotton, flax, polyamide, polyester and aramide.



Endless woven belts provide many advantages:

- 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 +500° 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

Using various endless woven fabrics, the unique functionality of *Ammeraal Beltech's* belting range is illustrated by the fact that extremely heavy armoured cables can be processed with the same degree of smoothness as biscuit dough passing over a knife edge.



Impression of a belt during the profiling process. Customised with a variety of coatings and profiles, the belts are manufactured using a quality assurance system, based on ISO 9000:2000. In this way, it has become possible to substantially expand developments in process and conveyor belting.

Covers can be supplied in different colours, hardnesses or combinations. Cover range: PVC, TPU, PUR, PE, TPE-E, TPB, Si. Profile range: up to 77 standard profiles available.

Timing Belts, Engineered Belts and Knitting Tapes

Ammeraal Beltech timing belts offer precise solutions for synchronized conveying, positioning and power transmission. Different tooth pitches and shapes, cord and coating materials and a broad range of fabrication treatments are all available options.



Ammeraal Beltech PU timing belts provide total solutions:

- Extensive standard range
- Local technical support
- Innovative solutions
- Low maintenance
- Customization possible
- Commercial security

Ammeraal Beltech Engineered Belts are customized solutions for individual requirements when standard belting is not enough or conventional belting is limited. Various engineering techniques, full range of covering materials and constant development allow us to satisfy a wider range of more demanding applications.



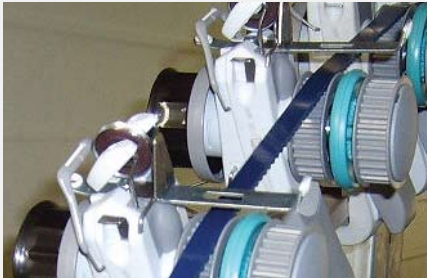
Ammeraal Beltech Engineered Belts offer outstanding advantages:

- Broad range of engineering techniques and materials
- Local technical support
- Volume flexibility
- Bespoke solutions
- Infinite customization possibilities
- CNC precision fabrication

Ammeraal Beltech special belts for Circular Knitting Machines:

- Rapplon High Performance flat belt with perforation
- Special PU timing belt with joint or truly endless
- Standard belt width is 10 mm
- Belts can be made to any length
- Belts are available for delivery in virtually every specification

Ammeraal Beltech - one supplier for all circular knitting belts.



Timing Belt TT5 aramid



Art. no.	Description	Application	Remark
54252	RAPPLON® GG04.16 RF + perforation	Special knitting tape	Available in dispenser boxes
7204700	PU Linear TT5 steel cord, white	Positive feeder belt for circular knitting machines	Also truly endless version without any joint available
7214700	PU Linear TT5 aramid cord, blue	Positive feeder belt for circular knitting machines	Also truly endless version without any joint available

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