

Belts for the Textile Industry





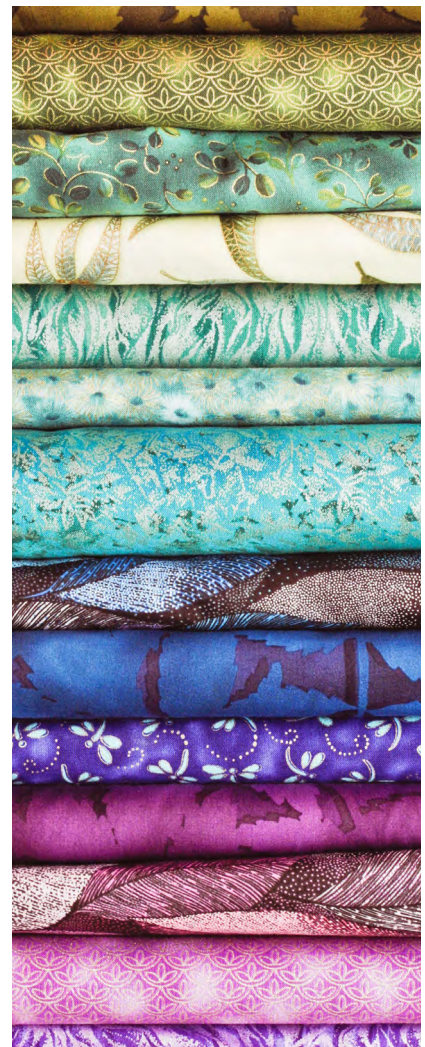
We know your industry and your production process

Creating textiles is one of the oldest technologies known to mankind, but today's textile industry is anything but old-fashioned. Textile manufacturing is constantly on the move, responding to demands for specialized new materials. Whether it's antibacterial surgical gowns for hospitals, heat-resistant protection for firemen, breathable fabrics for athletes or wrinkle-free shirts for busy executives, textile manufacturers need the best equipment possible to keep their production running. To stay competitive, textile production lines must continue to achieve higher spindle speeds and greater uniformity in yarn quality while still holding energy costs and other operational expenses down.

Ammeraal Beltech is a leading manufacturer of Process and Conveyor belts, with an outstanding reputation for developing innovative solutions for belting applications. We have been supplying the textile industry for years, and as industry requirements rise, so do our standards of performance and product excellence.

Our innovations are based on experience and knowledge. We provide belt types for the three most important textile sectors: yarn-spinning, weaving and nonwovens. For yarn-spinning and finishing, our RAPPLON® high performance tangential belts and spindle tapes offer the best characteristics to ensure maximum output, extended lifetime and uniform yarn quality. In the nonwoven sector, demand is greater for our process and conveyor belts, noted for their smooth, antistatic surfaces and laterally stable properties.

What's more, no matter which Ammeraal Beltech belt you choose, you'll find a high-quality product with improved chemical and ageing resistance for an extended service life.





Innovative belting solutions for the Textile Industry

Our comprehensive range is built around six product groups:

- Process and conveyor belts
- High performance flat belts
- Modular belts
- Endless woven belts
- Timing belts
- Engineered belts

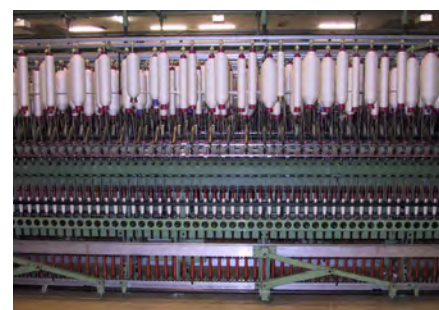
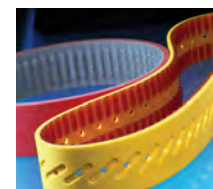
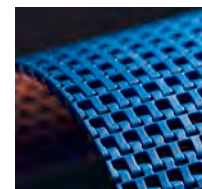
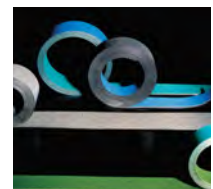
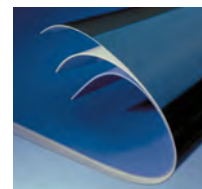
All our product groups come with appropriate tools and local service available for assembly and on-site work.

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.

You'll find Ammeraal Beltech products in almost every machine involved in textile production, including:

- Opening / cleaning machines
- Carding machines
- Combing machines
- Roving and drawing frames
- Ring-spinning machines
- Rotor-spinning machines
- Twisting machines
- Texturing machines
- Knitting machines
- Printing machines

... and many more



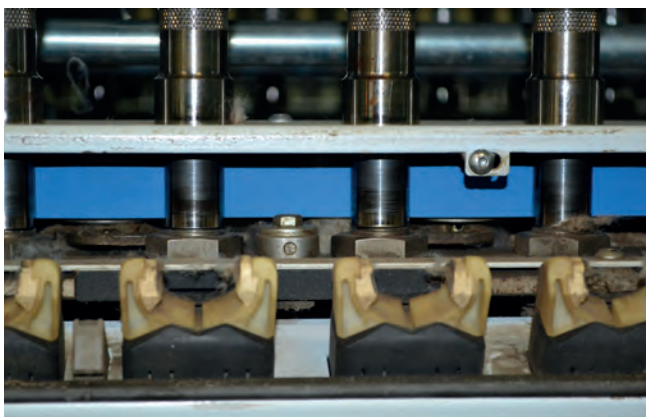


RAPPLON® High Performance Tangential Belts

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, maximizing 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® Innovative Spindle Tapes for the Textile Industry

The RAPPLON® range has spindle tapes for both ring spinning and yarn finishing.

Ring spinning

Ring spinning is a major step in yarn production, processing bundles of fibre (e.g. cotton) to a specified yarn quality. On ring-spinning machines, spindle tapes are often used instead of tangential belts to drive the spindles and wind up the produced yarn on bobbins.

Range includes:

54980 RAPPLON® GT P02.05 SC

54970 RAPPLON® UT E04.07 SQ



Ring-spinning machines can have up to 1600 spindles driven by up to 400 spindle tapes, all moving at the same speed to ensure consistent yarn quality.

Yarn finishing

Spindle tapes are also popular for use in yarn finishing processes such as twisting, doubling and fancy yarn twisting, where heavier loads may demand a stronger tape.

Range includes:

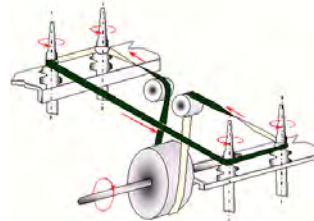
54981 RAPPLON® GT P02.09 SC



A state-of-the-art spindle tape must be robust, energy-efficient and contribute significantly to a higher yarn quality.

Benefits:

- Consistent spindle speeds of up to 24,000 rpm
- Energy efficient (up to 5% energy savings)
- Uniform yarn quality
- Long life-time
- Easy maintenance - short down-times



Feature	Advantage	Benefit
54980 RAPPLON® GT P02.05 SC / 54981 GT P02.09 SC		
Extra thin belt design	Very flexible	Reduced energy consumption
No edge-fraying	No fluff or lint accumulation	Constant spindle speed and uniform quality
Stable tension and minimal speed loss	No elongation	Uniform yarn quality
Abrasion resistant friction cover	Highly efficient	Long service life
Permanently antistatic	No fluff or lint accumulation	Safety for employees
54970 RAPPLON® UT E04.07 SQ		
No edge-fraying	No fluff or lint accumulation	Constant spindle speed and uniform quality
Uniform QuickSplice joint	Adhesive free and smooth belt running	Less downtime
Very flexible construction	High degree of efficiency	Reduced energy consumption
Stable tension and minimal speed loss	No elongation	Uniform yarn quality
Permanently antistatic	No fluff or lint accumulation	Safety for employees
Abrasion resistant friction cover	Highly efficient	Long service life

Technical data

Article number	RAPPLON® Belt description	Thickness in mm	k1% in N/mm dynamic	Recommended tension %	Min. pulley Ø at 68°F in mm	Thermal operational area in °F
54980	GT P02.05 SC	0.55	1.55	0.5 - 2.0	10	+32 / +176
54981	GT P02.05 SC	0.90	2.00	0.5 - 2.0	15	+32 / +176
54970	UT E04.07 SQ	0.70	4.00	0.5 - 2.0	10	+32 / +140



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					
58181	S27 C FG	Lateral stability	2.70	27.00	80
54990	PVC 16-4	4-ply lateral stability	4.35	16.00	200
54532	UU N06 RFQ FG	Long service life	0.80	0.60	6
54533	UU N12 RFQ FG	Long service life	1.15	1.20	15
54551	UU N16 SSQ FG	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
54583	GG E03.14 FFQ	QuickSplice, no fluff accumulation	1.40	3.10	20
RAPPLON® QuickSplice Tangential belts					
54561	UU E15.20 RFQ FG	New design	2.00	15.00	30
54542	UU E15.30 RFQ FG	New design	3.00	15.00	30
54555	UU E22.20 RRQ FG	New design	2.00	22.00	30
54556	UU E22.30 RRQ FG	New design	3.00	22.00	40
RAPPLON® Classic Tangential belts					
54739	GG S04.17 RRC green	Extended service life	1.70	4.00	20
54734	GG S06.18 RFC	Extended service life	1.80	6.00	40
54732	GG S07.21 RRC green	Extended service life	2.10	7.00	60
54370	GG S09.22 RRC green	Extended service life	2.20	9.00	60
54528	GG S11.25 RRC green	Extended service life	2.50	11.00	60
54530	GG S11.26 RFC	Extended service life	2.60	11.00	60
54286	GG S15.30 RRC green	Extended service life	3.10	15.00	80
54287	GG S18.34 RRC green	Extended service life	3.40	18.00	150
RAPPLON® Spindle tapes					
54970	UT E04.07 SQ	QuickSplice	0.70	4.00	10
54980	GT P02.05 SC	Classic type	0.55	1.55	10
54981	GT P02.09 SC	For higher load	0.90	2.00	15
RAPPLON® Drive belts					
54702	GT S04 RC	Highly efficient	1.25	4.00	20
54703	GT S06 RC	Highly efficient	1.40	6.00	40
54704	GT S09 FC	Highly efficient	1.90	9.00	40
54250	TT S09.16 C	Highly efficient	1.65	9.00	60
54289	GG S11 LRC	Longitudinal grooves, suitable for cone drive	3.25	11.00	80
54297	GG S22 LRC	Longitudinal grooves, suitable for cone drive	4.60	22.00	220
54038	LL S06 C	Leather surface, suitable in dirty/dusty conditions, cone and crossed drive	3.80	6.00	70
54039	LL S09 C	Leather surface, suitable in dirty/dusty conditions, cone and crossed drive	4.20	9.00	90
54045	LT S06 C	Leather surface, suitable in dirty/dusty conditions, cone and crossed drive	2.60	6.00	50
54046	LT S09 C	Leather surface, suitable in dirty/dusty conditions, cone and crossed drive	2.90	9.00	70
54047	LT S11 C	Leather surface, suitable in dirty/dusty conditions, cone and crossed drive	3.00	11.00	100
54048	LT S15 C	Leather surface, suitable in dirty/dusty conditions, cone and crossed drive	3.60	15.00	150



Innovative features for our RAPPLON® belts: QuickSplice system and E-RappCalc®

RAPPLON® QSP 60LF Plus and MFT 60 on-site fitting set

Our on-site fitting set includes a finger-punching unit for on-site preparation and splicing of RAPPLON® High performance flat belts.

Customer benefits:

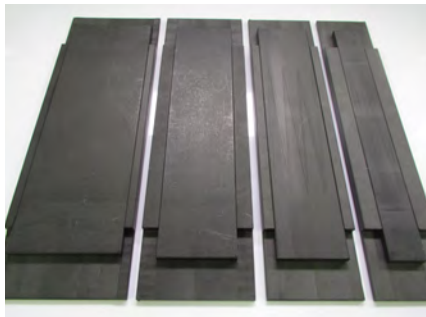
- Allows for quick and easy on-site splicing
- All tools fit in one easily portable case
- Set comes with heating pliers with adjustable temperature settings.
- Our splicing technology produces consistent thickness over a perfectly straight joining area

The compact design and user-friendly features of our new tailor-made tools (such as the QSP 60LF Plus pictured here) make splicing safe and easy, even in tight surroundings.



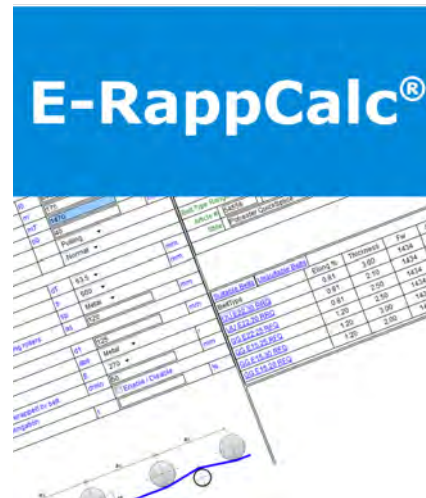
Guide rails are available in every width between 10mm and 60mm, ensuring consistently perfect alignment over the joining area.

Save time, save money with QuickSplice technology!



E-RappCalc® online calculation program

The RAPPLON® online calculation program offers easy-to-use data input and data change features for hassle-free optimization of tangential drives and belts. E-RappCalc® always gives you the right answer.





Process & Conveyor belts for the Textile Industry

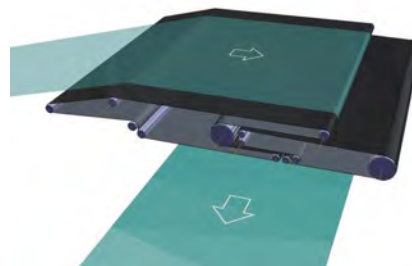
Refinement processes such as dyeing and printing require smooth and reliable belting solutions. Ammeraal Beltech's process and conveyor belts provide an efficient flow of bales, fibres, bobbins and packages. Whether it's for plane or spike lattice conveyors, blower rooms, aprons, spinning machines or 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

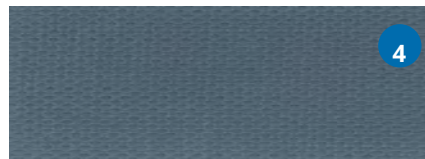
Cover type/material	Application and features
575760 Flexam EM 8/2 0+04 Green AS FG	Blow rooms, general transport, antistatic
579379 Ropanyl EM 4/1 00+02 black M1 AS HC NL	Crosslapper, high conductive, very flexible
574019 Ropanyl EM 8/2 00+02 Black M1 AS	Low speed crosslapper, antistatic
573650 Flexam 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



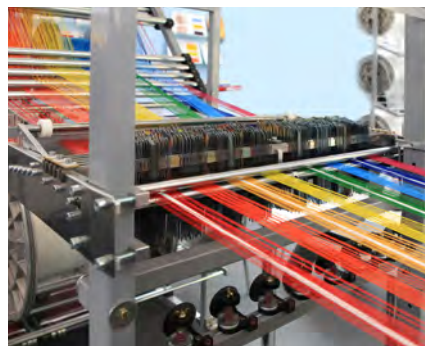
High-quality belting solutions for extremely adhesive covering.

Properties

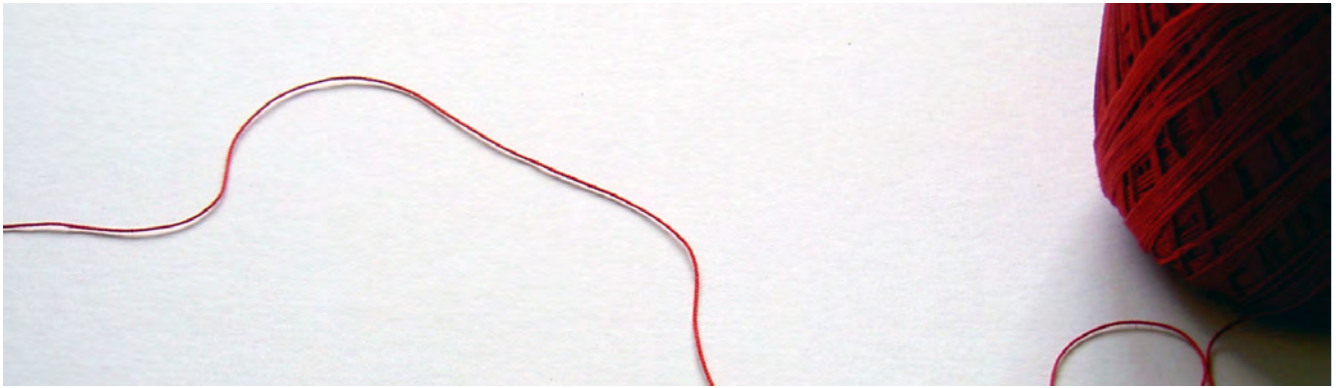
Type	Material	Temp.
NI	Nitrile rubber	248° F
NR	Natural rubber	212° F
PV	PVC	176° F
PF	PVC Oil & fat resistant	176° F

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 colors 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 -176°F up to +662°F
- 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

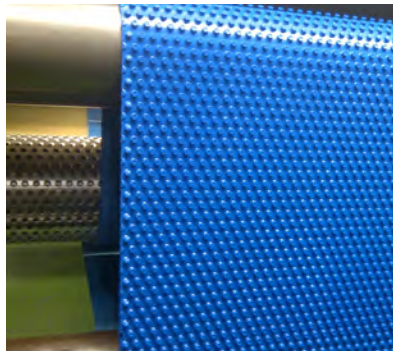


Image of a nipple-profile A17 belt during its profiling process. Customised with a variety of coatings and profiles, the belts are manufactured using a quality-assurance system based on ISO 9001:2008.

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).

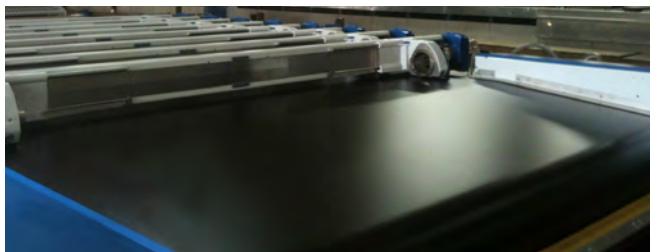
Covers can be supplied in different colors, degrees of hardness and in combinations of both. The range of cover materials include polyester, PVC, polyurethane, polyethylene and silicones, and there are up to 77 standard profiles available.

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
- Digital printing
- Rotary screen 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

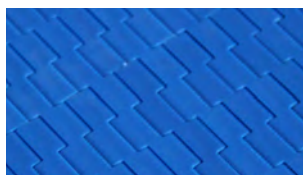
AmPrint U 230	Force at 1% elongation (ISO 21181)	25N / mm
	Belt thickness	2.65mm
	Number of fabrics	2
	Maximum belt width	3700
AmPrint U 120	Force at 1% elongation (ISO 21181)	20N/mm
	Belt thickness	2.00mm
	Number of fabrics	1
	Maximum belt width	3000mm

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



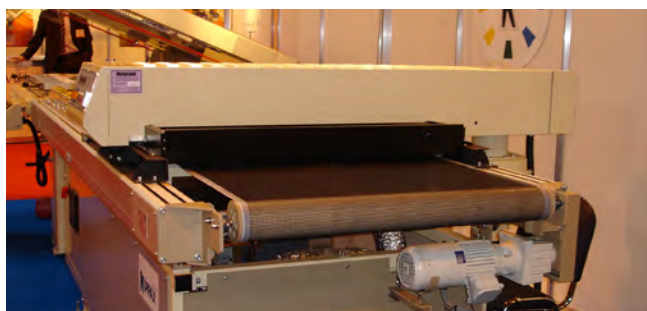
uni M-QNB – closed smooth surface prevents catching or tearing



uni M-QNB rubber top – 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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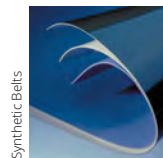
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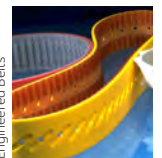
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**Expert advice and quality solutions
for all your belting needs.**



Synthetic Belts



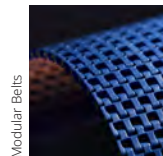
Engineered Belts



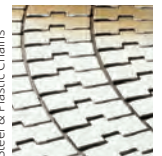
Endless Woven Belts



Homogeneous Belts



Modular Belts



Steel & Plastic Chains

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