

# Tube Winding

RAPPLON® and AmTube Belts

# When precise spiral winding is of the utmost importance

RAPPLON® and AmTube Belts offer solutions for all tube winding applications



**As part of Ammeraal Beltech's ongoing commitment to innovation we have belts available for light, medium and heavy tube winding. These belts have a constant coefficient of friction ensuring extremely precise spiral winding and are highly wear resistant to paper abrasion.**



**Maximum winding precision for printed spiral tubes is essential. No problem for RAPPLON® High performance flat belts.**

RAPPLON® and AmTube Belts are developed to wrap tensioned plies of glued paper around pulleys and mandrels in the production of paper tubing. These belts are endless and have an accurate length and width made to wrap very tightly around mandrels to produce high quality paper tubes.

## **RAPPLON® Classic Flat Belt with TNBR Rubber**

RAPPLON® Flat Belts with a tension member of highly stretched polyamide foil are specifically designed to master high speed with precise tracking and high load fluctuations. The shock-absorbing properties of our maintenance-free belts substantially extends the lifetime of bearings supporting your goal of cost efficiency.

Our brand-new wear resistant rubber compound, particularly designed for spiral winding, ensures extremely precise tubes and proves longest lifetime when processing small and medium size tubes.

## **AmTube 500 and AmTube 700**

This range of endless woven AmTube Belts provides the best belting solutions to cope with specific and tough conditions found on medium to heavy tube winders.

We apply the highest quality standards to meet our customers demands.

Our Ropan polyurethane coating is extremely wear resistant (3 times higher than conventional rubber), maintaining constant high friction for optimal grip (no tube marking).

**Thanks to TNBR rubber, the longest lifetime is proven by important end users and renowned OEM's.**



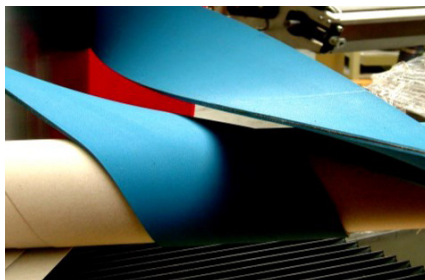
**Even huge cardboard cores are wound superbly by our AmTube belts.**

# RAPPLON® and AmTube belts ... offer solutions for all paper tube sizes

| Belt Data                           |                                    |                                    |                                    |                                    |                         |                         |
|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------|-------------------------|
| Belt type                           | RAPPLON®<br>GG S04.14 RRC<br>54731 | RAPPLON®<br>GG S07.30 RRC<br>54243 | RAPPLON®<br>GG S09.30 RRC<br>54736 | RAPPLON®<br>GG S11.50 RRC<br>54278 | AmTube 500              | AmTube 700              |
| Belt thickness [mm]                 | 1.3                                | 3.0                                | 3.0                                | 5.0                                | 4.0 - 7.0               | 8.0 - 14.0              |
| Belt factor at 1% elongation [N/mm] | 4                                  | 7                                  | 9                                  | 11                                 | 50                      | 90                      |
| Recommended elongation [%]          | 2.0 - 3.0                          | 2.0 - 3.0                          | 2.0 - 3.0                          | 2.0 - 3.0                          | 0.5                     | 0.5                     |
| Tension member material             | Polyamide Foil                     | Polyamide Foil                     | Polyamide Foil                     | Polyamide Foil                     | Polyester Endless Woven | Polyester Endless Woven |
| Cover material, colour, surface     | TNBR, grey, rough                  | TNBR, blue, rough                  | TNBR, blue, rough                  | TNBR, blue, rough                  | Ropan 70, white, ground | Ropan 70, white, ground |

| Belt Selection Guide          |                                    |                                    |                                    |                                    |                     |                     |
|-------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|---------------------|---------------------|
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| Min. core inner diameter [mm] | 18                                 | 30                                 | 40                                 | 40                                 | 32                  | 44                  |
| Min. core outer diameter [mm] | 20                                 | 32                                 | 50                                 | 50                                 | 40                  | 60                  |
| Max. core outer diameter [mm] | 40                                 | 50                                 | 80                                 | 120                                | 80                  | 1100                |
| Max. wall thickness [mm]      | 2                                  | 4                                  | 6                                  | 10                                 | 2.0 - 8.0           | 4.0 - 16.0          |
| Min. drive drum diameter [mm] | 20                                 | 40                                 | 80                                 | 60                                 | 10 x belt thickness | 10 x belt thickness |

## RAPPLON® Classic Flat Belts for light and medium tubes



- Stretched polyamide foil as tension member for the highest efficiency and optimal elasticity
- New rubber compound with added wear resistance for longest lifetime and constant high friction ensuring extremely precise spiral winding
- Highly flexible single-ply tension member allow to wrap also small tubes

## AmTube Belts for medium and heavy tubes



- Endless woven construction without any splice
- Special strong tension member up to 90 N/mm at 1% elongation
- Seamless fabric construction
- Seamless PU-cover
- Excellent force-elongation properties
- Ideal combination of cover resistance and high friction
- Fully closed edges to avoid edge fraying

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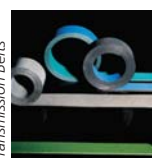
Conveyor Belts



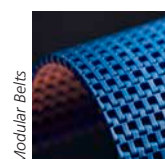
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