Ammeraal Beltech

EN

Endless Woven AmWrap Belt for Metal Wrapping

Ammeraal Beltech is a leading manufacturer of process and conveyor belting with an established reputation for developing innovative solutions for belting applications.

Coil wrapping machines are used in the metal industry to coil sheet material of various thickness and temperature. AmWrap Belts are positioned around the mandrel of a coiling machine to guide the sheet material at the start of the coiling process. They are designed for use in rough environments, and exhibit good impact and cut resistant properties.

AmWrap Belts consist of a uniformly coated, seamless and endless fabric with special edges to prevent fraying and wear. This guarantees high flexibility and extended belt life.
The top cover on these belts is wear resistant, non-ageing polyurethane. This material is not affected by milling emulsion, preventing covers from hardening or cracking.

Main benefits

- Less risk of downtime because of seamless belt construction
- Metal temperatures up to 350°C can be handled due to various top covers
- Different sheet thicknesses can be coiled thanks to variable cover thicknesses
- Small pulleys are possible because of variable seamless construction
- Oil and fat resistant covers minimise risk of cracking
- Low fraying risk with special fabric edge execution (closed edges are possible in some cases)

Innovation and Service in Belting

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Innovation & Service in Belting

Technology

In the metal industry, wrapping machines are used to coil sheet material of variable thickness of steel, aluminium, copper, etc. At the start of the coiling operation, one or two wrapper belts are positioned around the mandrel of a coiling machine. The flat sheet is fed between the belts and coiling mandrel, and the belt forces the sheet to coil up. After a number of turns of the coiling mandrel, the need to guide the sheet material ceases, the wrapper belts move away and the coiling operation continues at high speed. Once the correct length of material has been coiled, the sheet is cut off and the next coiling operation starts.

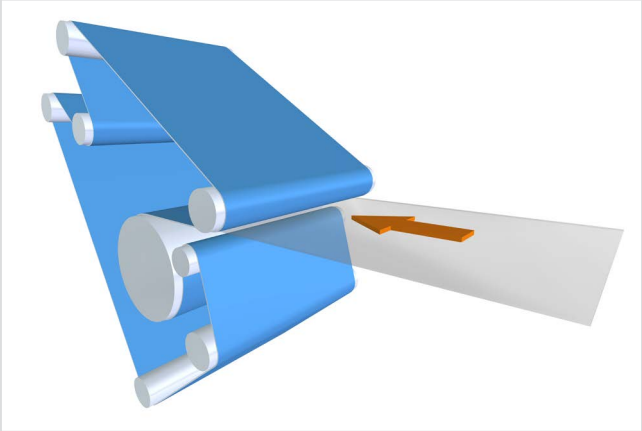

Diagram of the wrapping process

Features

- Seamless covers and fabrics:
  - Constant thickness
  - Flexibility in flexing and back flexing
  - No splice failure
  - Overall belt strength
  - Covers and fabrics can be selected depending on application demands
- Excellent FE properties
- Close tolerances in thickness/weight
- Wide range of profiles available

A questionnaire for belt selection is available

General Technical Data (examples)

Belt type	AmWrap C (Cold)	AmWrap T (Temperature)	AmWrap H (Hot)
Article code	GK1752	GK1752	AmWrap H300
Weave	broken twill weave	broken twill weave	broken twill weave
Fabric	polyester	polyester	aramide
Top cover	2 mm PUR Ropan 80 white ground*	3 mm TPU Ropanyl D60*	Aramide Needlefelt**
Bottom cover	1 mm PVC Nonex 65	1 mm TPU Ropanyl 93	bare fabric
Total belt thickness	6.5 mm	7 mm	7 mm
Max. belt tension	175 N/mm at 2% elongation	175 N/mm at 2% elongation	140 N/mm at 1% elongation
Belt weight	approx. 9 kg/m²	approx. 9 kg/m²	approx. 4.3 kg/m²
Min. pulley diameters	140 mm flexing 200 mm back flexing	140 mm flexing 250 mm back flexing	70 mm flexing 70 mm back flexing
Temperature resistance	-10 to +80 °C	-10 to +130 °C	350 °C
Belt length	up to 108 m	up to 108 m	min. 6000 mm
Belt width	up to 1900 mm	up to 1600 mm	up to 3400 mm
Finish	non-fraying slit edges	non-fraying slit edges	selvedges

** Top cover thickness depending on coil type/thickness*
*** AmWrap H300: aluminium up to 8 mm / AmWrap H700 up to 12 mm*

The local partner of choice for sustainable conveyor belting solutions - around the globe.

Scan the QR code and find your local contact

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07.2024