

Endless Woven AmPull Belts for Cable Pulling



Ammeraal Beltech is a global belting company, operating in the cable, wire and extrusion industry. In caterpillars and capstans we apply cable pulling belts with extreme demands in force/elongation properties.

Our AmPull belts, which are used in the production and processing of cables, are manufactured of high-quality materials since they are mainly used at high speeds and under considerable pressure. In order to ensure a long service life and good performance, it is important that this material meets some application requirements.

The coated continuous polyester and/or aramide fabric construction of AmPull belts allow the application of high pulling forces. Special bottom covers absorb high pressure loads and ensure low rolling resistance. Different top covers can be selected to combine optimum grip and wear resistance for every type of cable.

The absence of a splice, together with tight tolerances in belt thickness and suppleness, allows for constant line speeds up to 300 m/min.

The AmPull range of belts is available in a wide range of wear resistant covers, smooth or with grooves on both top and bottom sides. AmPull belts are always manufactured in pairs ensuring constant cable quality.

Customer benefits

- Constant cable quality
- High cable pressures allowed
- All types of cables (covered, non-covered, twisted)
- Cable friction can be increased by machining custom-made top grooves
- Tracking can be optimized by adding longitudinal bottom grooves (custom made or standard Poly-V, J, L, M)
- No fluctuations in cable insulation quality
- Uniform cable production speed

Innovation & Service in Belting

Technology

Cable pulling machines – caterpillars and capstans – draw cables through the various processes of cable production and cable handling systems. AmPull endless woven pulling belts are designed for this purpose. In general these machines consist of two belts, one above the other, between which the cables are clamped and pulled.

Caterpillars are also used in the wire and extrusion industry to pull wires, plastic or rubber tubes and profiles.

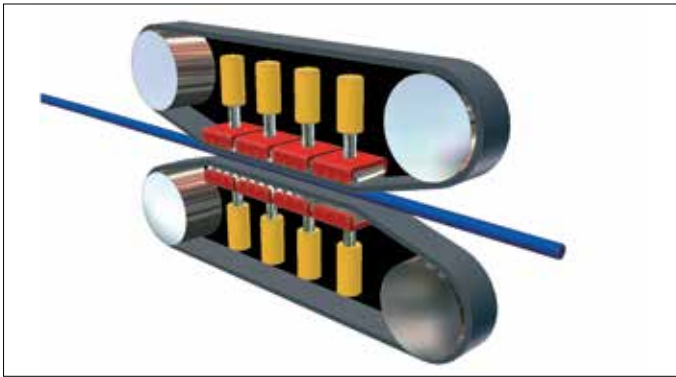


Diagram of the pulling process

Below a selection of fabrics and coatings which can be combined to make a tailor made belt for your application

Benefits

- AmPull belts are always produced in pairs for a specific machine. This ensures that the belts are identical and have matching performance.
- Excellent running properties at speeds of up to 300 m/min.
- The covers have very good resistance to oils, fats and plasticizers as well as to sulphur and ozone.
- The absence of a splice in the uniformly coated, seamless, endless fabric, together with tight tolerances in belt thickness and suppleness, ensures constant line speeds.
- High force at low elongation, no stretching. High friction between belt and cable. In general a thick, heavy cable requires a soft cover, whilst a thin cable requires a harder cover.
- The belt covers require a certain hardness to generate high pulling forces, while at the same time enabling a low rolling resistance.

A questionnaire is available for belt selection.

General Technical Data – Seamless Endless Woven Cable Pulling Belt

AmPull Fabric Range	Weave	Fabric	Max belt tension N/mm at 2% Elongation	Max Cable pulling force in N per 100 mm Belt width	Edge finish
GK1002SE	Broken Twill Weave	100% Polyester	100	10500	Red spun
GK1402SE	Broken Twill Weave	100% Polyester	175	14500	Red spun
GK1752SE	Broken Twill Weave	100% Polyester	175	18500	Red spun
GK1752FE	Broken Twill Weave	100% Polyester	175	18500	Spun yarn
GK2502SE	Broken Twill Weave	50% Polyester/50% Aramide	250	26500	Red spun
GK2502SE	Broken Twill Weave	30% Polyester/70% Aramide	450	47500	Red spun
Top Cover Material	Hardness	Finish	Machining options longitudinal	Machining options lateral	Machining symbols
Nonex PVC	20°, 30°, 40°, 55°, 65°, 70°, 80° Shore A	Smooth	V (depth, width, angle)		
Ropan PUR	70°, 80°, 90° Shore A	Ground	Round (depth, radius)		
Ropanyl TPU	76°, 85°, 93° Shore A	Smooth	Square (depth)		
Silam Si	10°, 40°, 50°, 55°, 60° Shore A	Smooth or Ground	Rectangle (depth, width)	Rectangle (cross-slots) (depth, width)	
Bottom Cover Material	Hardness	Finish	Machining options longitudinal		
Nonex PVC	80° Shore A	Smooth	Standard poly-V (J-L-M) On request (H-PK)		
Ropan PUR	70°, 80°, 90° Shore A	Ground	Square (depth)		
Ropanyl TPU	76°, 85°, 93° Shore A - 60° Shore D	Smooth	Rectangle (depth, width)		



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