

# 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.

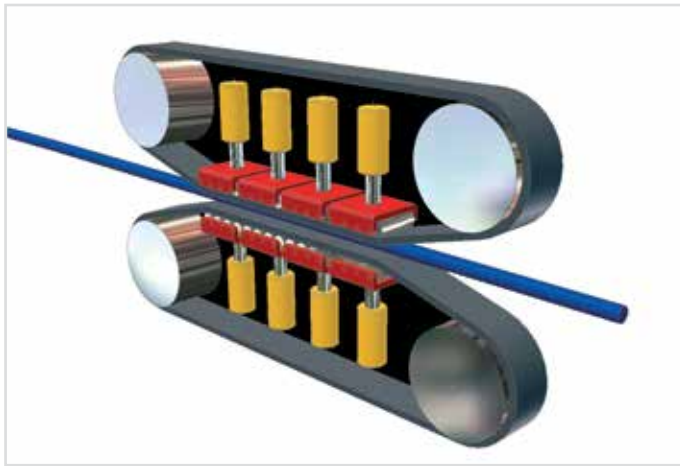


Diagram of the pulling process

## 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.

### General Technical Data - seamless endless woven cable pulling belt (example)

Belt type	<b>AmPull</b>
Article code	GK 1752 SE
Weave	broken twill weave
Fabric	polyester
Top cover	PVC: 13.5 mm green Nonex 65 Shore A
Bottom cover	TPU: 1 mm blue Ropanyl 93 Shore A
Total belt thickness	18 mm
Cable pulling force	20,000 N/100 mm belt width
Max. belt tension	175 N/mm at 2% elongation
Belt weight	approx. 25 kg/m <sup>2</sup>
Min. pulley diameter	200 mm flexing
Temperature resistance	-10 to +110 °C
Belt length	up to 65 m
Belt width	up to 1200 mm
Finish	slit edges

This example is commonly used for this type of process. Consult our application engineers and product information for other options in:

- cable-pulling forces
- extra wear-resistant covers in various materials and thicknesses
- grooved top covers and/or profiled bottom covers

A questionnaire is available for belt selection.



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