Endless woven belts for specific applications

Belts for medium and heavy duty applications
- Cable pulling
- Metal wrapping
- Wood pre-pressing
AmPull – belts for cable pulling

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 used for this purpose. In general these machines consist of two belts, one above the other, between which the cables are clamped before being pulled. This system is also used in extrusion systems for the production of plastic tubes and profiles.

- 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 900 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. The belt covers require a certain hardness to generate high pulling forces, while at the same time enabling a low rolling resistance. In general a thick, heavy cable requires a soft cover, whilst a thin cable requires a harder cover.

---

### Seamless endless woven cable-pulling belt

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Article code</td>
<td>GK 1752 E</td>
</tr>
<tr>
<td>Weave</td>
<td>broken twill weave</td>
</tr>
<tr>
<td>Fabric</td>
<td>polyester</td>
</tr>
<tr>
<td>Top cover</td>
<td>PVC: 13.5 mm green Nonex 65 Shore A</td>
</tr>
<tr>
<td>Bottom cover</td>
<td>TPU: 1 mm blue Ropanyl 93 Shore A</td>
</tr>
<tr>
<td>Total belt thickness</td>
<td>18 mm</td>
</tr>
<tr>
<td>Cable pulling force</td>
<td>20,000 N/100 mm belt width</td>
</tr>
<tr>
<td>Max. belt tension</td>
<td>175 N/mm at 2% elongation</td>
</tr>
<tr>
<td>Belt weight</td>
<td>approx. 25 kg/m²</td>
</tr>
<tr>
<td>Min. pulley diameters</td>
<td>200 mm flexing</td>
</tr>
<tr>
<td>Temperature resistance</td>
<td>-10 to +110 °C</td>
</tr>
<tr>
<td>Belt length</td>
<td>up to 65 m</td>
</tr>
<tr>
<td>Belt width</td>
<td>up to 1200 mm</td>
</tr>
<tr>
<td>Finish</td>
<td>slit edges</td>
</tr>
</tbody>
</table>

AmPress 01 is the universal type most 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 thickness
- grooved top covers and/or profiled bottom covers

---

Cable Pulling machine

Diagram of the pulling process
AmWrap – belts for metal wrapping

In the metal industry, wrapping machines are used to coil sheet material of various thicknesses 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 belts force 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. Once the correct length of material has been coiled, the sheet is cut off and the next coiling operation starts.

- Made for use in tough conditions. Very good absorption of impact and cuts from sheets.
- The AmWrap belt type is a uniformly coated, seamless, endless fabric with extremely strong edges to prevent fraying and wear. This ensures high flexibility and extended life.
- The top cover is wear resistant, non-ageing polyurethane (PUR), which is not affected by milling emulsion; therefore the covers do not harden or crack. Good resistance to oils, fats, sulphur, ozone and kerosene.
- Easy to track, stable belt run, even at high belt speeds of 400 m/min.
- High friction between belt and material to be wrapped.
- The excellent force/elongation properties enable sheet material to be tightly wrapped.

<table>
<thead>
<tr>
<th>Seamless endless woven wrapper belt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belt type</td>
</tr>
<tr>
<td>Article code</td>
</tr>
<tr>
<td>Weave</td>
</tr>
<tr>
<td>Fabric</td>
</tr>
<tr>
<td>Top cover</td>
</tr>
<tr>
<td>Bottom cover</td>
</tr>
<tr>
<td>Total belt thickness</td>
</tr>
<tr>
<td>Max. belt tension</td>
</tr>
<tr>
<td>Belt weight</td>
</tr>
<tr>
<td>Min. pulley diameters</td>
</tr>
<tr>
<td>Temperature resistance</td>
</tr>
<tr>
<td>Belt length</td>
</tr>
<tr>
<td>Belt width</td>
</tr>
<tr>
<td>Finish</td>
</tr>
</tbody>
</table>
AmPress – belts for wood pre-pressing

The wood and building materials industries process plywood, chipboard and MDF into sheeting. After the (wood) chips have been mixed, the material undergoes pre-pressing before passing to the final press, where the finished panels are manufactured. Endless woven pre-press belts are used in the pre-press unit.

- The truly endless construction eliminates the risk of splice failure. The standard AmPress belt type is a uniformly coated, seamless, endless fabric with antistatic properties to prevent static charge build-up, making it a very flexible product.
- The cover material is wear-resistant polyurethane (PUR), which is also extremely resistant to wood pulp, thus extending belt life.
- Easy to track, stable belt run.
- Good resistance to bonding materials, oils, fats, sulphur, ozone, kerosene.
- Available in two surface finishes: closed or with holes for air release.

<table>
<thead>
<tr>
<th>Seamless endless woven pre-press belt</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Belt type</strong></td>
</tr>
<tr>
<td>Article code</td>
</tr>
<tr>
<td>Weave</td>
</tr>
<tr>
<td>Fabric</td>
</tr>
<tr>
<td>Top cover</td>
</tr>
<tr>
<td>Bottom cover</td>
</tr>
<tr>
<td>Total belt thickness</td>
</tr>
<tr>
<td>Max. belt tension</td>
</tr>
<tr>
<td>Belt weight</td>
</tr>
<tr>
<td>Min. pulley diameters</td>
</tr>
<tr>
<td>Temperature resistance</td>
</tr>
<tr>
<td>Belt length</td>
</tr>
<tr>
<td>Belt width</td>
</tr>
<tr>
<td>Finish</td>
</tr>
</tbody>
</table>

*AmPress 01 is the universal type most commonly used for this type of process. Consult our application engineers and product information for other options.*
Our Endless woven belting also includes a distinctive product range for medium and heavy-duty applications. Over many years, *Ammeraal Beltech* has gathered extensive knowledge of specific heavier-duty applications and developed a number of standard solutions for these industries. Examples include:

- **Cable industry** - for caterpillars and capstans, as cable-pulling belts
  › the *AmPull* range

- **Metal industry** - as coil wrapper belts for steel and aluminium sheeting, etc.
  › the *AmWrap* range

- **Wood industry** - as pre-press belts for particleboard and MDF panel production
  › the *AmPress* range

The range of belts for these specialised applications offers the same advantages as all *Ammeraal Beltech* endless woven belting:

- Endless and spliceless design with no seam, giving consistent thickness and suppleness over the full belt length and eradicating any risk of splice failure.
- Constant line speeds, proper tracking and extended service life.
- No structural variations in the fabric.
- Excellent tensile strength/elongation properties.
- Uniform strength over the entire belt length.
- Close tolerances in thickness and weight.
- Non-stretch and non-shrink.
- Wide range of coatings and profiles.

The belt series for specialized applications – cable, metal and wood industries
Your global contact

International Head Office:
Ammerraal Beltech Holding B.V.
Handelsstraat 1
P.O. Box 38
1700 AA Heerhugowaard
The Netherlands
T +31 72 5751212
F +31 72 5716455
info@ammeraalbeltech.com
www.ammeraalbeltech.com

Austria
T +43 1 2929372
F +43 1 2928906
info@ammeraalbeltech.at

Belgium
T +32 2 466 0300
F +32 2 466 4272
sales@ammeraal-beltech.be

Brazil
T +55 11 4655 1244
F +55 11 4655 10 99
vendas@ammeraalbeltech.com.br

Canada
T +1 905 890 1311
F +1 905 890 3660
info@ammeraalbeltech.ca

Chile
T +56 266 96975
F +56 266 96709
info@ammeraalbeltech.cl

China
T +86 21 6534 4690
F +86 21 6548 0430
webmaster@ammeraalbeltech.com.cn

Czech Republic
T +420 56 7330 056
F +420 56 7330 637
prodej@ammeraalbeltech.cz

Finland
T +358 3 278 4400
F +358 3 273 1400
info@ammeraalbeltech.fi

France
T +33 3 20 90 36 00
F +33 3 20 32 29 17
client@ammeraalbeltech.fr

Germany
T +49 4152 937-0
F +49 4152 77695
sales@ammeraal-beltech.de

Hungary
T +36 234 275 10
F +36 234 275 11
info@ammeraalbeltech.hu

Italy
T +39 051 660 60 06
F +39 051 660 60 16
info@ammeraalbeltech.it

Luxembourg
T +352 26 48 38 56
F +352 26 48 38 57
sales@ammeraal-beltech.lu

Malaysia
T +60 3 806 188 49
F +60 3 806 189 35
sales.kl@ammeraalbeltech.com.my

Netherlands
T +31 72 57 51212
F +31 72 57 43364
info@ammeraalbeltech.nl

Portugal
T +351 22 947 94 40
F +351 22 941 30 81
geral@ammeraalbeltech.pt

Singapore
T +65 62739767
F +65 62735490
sales@ammeraalbeltech.com.sg

Slovakia
T +421 2 55648541-2
F +421 2 55648543
predaj@ammeraalbeltech.sk

South Korea
T +82 31 448 3613-7
F +82 31 448 3618
amel@ammeraalbeltech.co.kr

Spain
T +34 93 718 3305
F +34 93 718 6273
ventas@ammeraalbeltech.es

Sweden
T +46 44 43015
F +46 44 43349
info@ammeraal-beltech.se

Switzerland
T +41 55 2253 535
F +41 55 2253 636
verkauf.schweiz@ammeraal-beltech.ch

Thailand
T +66 2 902 2604-13
F +66 2 902 0422
sales@ammeraalbeltech.th.com

United Kingdom
T +44 1992 500550
F +44 1992 553010
sales@ammeraalbeltech.co.uk

United States
T +1 847 673 6720
F +1 847 673 6573
info@ammeraalbeltechusa.com

Reference: 35.0 GB Date 02/2006