germanBelt ... beyond expectations
We support your performance

germanBelt — quality without compromise

We offer a comprehensive range of conveyor belts. Our products always adhere to the highest standards. This is why quality assurance and quality management are particularly important to us. Extensive inspection, test and development methods ensure perfect service quality and excellent product properties.

Based on decades of experience in developing and manufacturing conveyor belts, germanBelt conveyor belts and conveyor systems are designed in a manner that satisfies any user’s high quality and performance requirements. The germanBelt range of conveyor belts comprises fabric, steel cord, chevron and germanWell plastic belts as well as a complete range of efficiency enhancing equipment. This we guarantee with our seal of quality, “certified by germanBelt”.

Quality is our promise. There can be no compromise. We provide you with high quality advice on applications, professional planning by our engineers and, of course, full service at any time. In all phases of the process, we pay the highest attention to unconditional efficiency and the best benefits for our customers.

We know how to optimise material handling processes. See for yourself!

Uwe Hickmann
Managing Partner, germanBelt Group

We support your performance and do not compromise on quality: our laboratory in Halle/Leipzig.
**germanBelt® conveyor belts**

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<td>14</td>
<td>General view</td>
</tr>
</tbody>
</table>

Go to www.germanBelt.com
Conveyor belt systems fulfil important functions in all industrial sectors. Although every conveyor system is different, customers seek and require the most efficient and technically perfect solution. Tailor made to fit the user’s individual requirements.

germanBelt's promise and service is, together with the user, to find, commission, maintain and repair the optimal conveyor belt solution.

**germanBelt® fabric conveyor belts**

**Fabric reinforcement**

Our fabric conveyor belts are reinforced by 2-5 rot-resistant plies made of synthetic EP or PP fabric. These fabrics possess a good tensile strength/weight ratio; have excellent flexibility and troughability, low elongation and high impact and chemical resistance.

**Structure**

1. Cover, load-carrying side
2. Carcass
3. Cover, return side

The Illustration shows the structure of a germanBelt fabric belt.

**Covers**

The carcass is protected by covers. Cover qualities or grades are defined by the belts’ chemical and physical properties. Inclined systems require cleats or belts with grooved surfaces. Cover thickness depends on the properties of the transported material and loading conditions.

**Skim layers**

Rubber skim layers provide excellent adhesion between plies and covers, efficient force transmission and distribution of tension between the plies. They also absorb impact stress caused by falling material.

**Possible fields of application**

- Hard rock quarries
- Sand and gravel pits
- Concrete factories
- Cement plants
- Power plants
- Silos
- Foundries
- Salt mining
- Sugar refineries
Quality assurance

As manufacturer and supplier of components for material handling and wear protection technology, we ensure that our products and services always meet the highest standards. This is why quality assurance and quality management are particularly important to us. Extensive inspection, test and development methods ensure perfect service quality and excellent product properties.

With our seal of quality, “certified by germanBelt” we guarantee to provide our customers with exemplary products and high class workmanship.
Standard range of GermanBelt fabric belts

<table>
<thead>
<tr>
<th>Grade</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>W</td>
<td>Belts with defined mechanical parameters</td>
</tr>
<tr>
<td></td>
<td>anti-abrasive cover with good mechanical properties</td>
</tr>
<tr>
<td>X</td>
<td>abrasion and cut resistant cover for sharp-edged or lumpy material, highest requirements</td>
</tr>
<tr>
<td>Y</td>
<td>cover with good mechanical properties for standard applications</td>
</tr>
<tr>
<td>Z</td>
<td>cover for minor applications</td>
</tr>
</tbody>
</table>

Underground mining

<table>
<thead>
<tr>
<th>Grade</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>K</td>
<td>flame-retardant and anti-static for above ground and underground deployment</td>
</tr>
<tr>
<td>S</td>
<td>flame-retardant and anti-static for above ground and underground deployment</td>
</tr>
<tr>
<td>V</td>
<td>self-extinguishing and anti-static for the highest safety requirements in underground mining</td>
</tr>
</tbody>
</table>

Oil and fat resistance

<table>
<thead>
<tr>
<th>Grade</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>G</td>
<td>transport under conditions affected by oil or fat</td>
</tr>
<tr>
<td>A</td>
<td>food quality (oil, fat and temperature)</td>
</tr>
</tbody>
</table>

Heat and cold resistant

<table>
<thead>
<tr>
<th>Grade</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>R</td>
<td>for application at temperatures below 0 °C, down to -60 °C</td>
</tr>
<tr>
<td>T</td>
<td>heat resistant, transport of hot material</td>
</tr>
</tbody>
</table>

Acid resistant

<table>
<thead>
<tr>
<th>Grade</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>transport of acidic material</td>
</tr>
</tbody>
</table>

Other cover materials and details on request.
germanWell® corrugated sidewall belts

By using sidewalls of heights from 40 mm to 300 mm and cleats from 35 mm to 280 mm, belt systems can be adjusted to any field of application. germanWell corrugated sidewall belts are therefore indispensable in any industry where bulk materials are to be transported vertically. Possible applications range from the transport of fine sand to lumpy materials in any field.

germanWell conveyor belts offer economic benefits and ensure safe and reliable transport. In some fields of application, their properties are superior to grooved flat belts.

Inclined transport with germanWell conveyor belts requires laterally stable conveyor belts. Lateral stability makes it possible to change a horizontal direction of travel to vertical and vice versa.

This means optimal transport on the smallest place.

- VERTICAL TRANSPORT
- OPTIMISED MATERIALS TRANSPORT PROCESS
- SIGNIFICANT COST BENEFITS
- HIGH RELIABILITY

germanWell® deflection discs
Wear resistant rubber components with dampening effect for belt gently directional control.

including precision axis, clamping sets and high-quality, low-maintenance bearings
We know the enormous stress caused by high output. High performance conveyor systems which are permanently exposed to considerable stress and work at large centre distances and slope, require reliable and wear resistant reinforcement with low elongation. germanBelt steel cord conveyor belts make it possible to build long conveyor systems with low tension. They have many advantages and have excellent tensile strength and lateral elasticity allowing deep troughs. Your benefit: increased efficiency and higher reliability.

---

**germanBelt® steel cord belts**

**Steel cord reinforcements**
The standard cords have been hot-dip galvanised and have diameters from 2.6 to 12.8 mm. They are manufactured in 7x7 or 7x19 designs (other designs are possible). Their design allows good rubber saturation and distribution.

**Structure**
1. Cover, load-carrying side
2. Steel cord carcass
3. Lateral reinforcements
4. Cover, return side

*The Illustration shows the structure of a germanBelt steel cord belt.*

**Skim layers**
A special chemical process provides excellent rubber/metal adhesion. The design of the cords leads to outstanding adhesion that surpasses any standards. Good rubber saturation and the excellent adhesion of each cord provide germanBelt conveyor belts with extraordinarily high longevity.

**Covers**
Abrasion resistance, tensile strength and elongation value of the covers depend on the cover combination’s chosen quality.

**Lateral reinforcements**
Reinforcements either consist of specific lateral steel cords with very high elasticity, or of fabric. The lateral reinforcements are worked into the carcass or the cover.

---

**Possible fields of application**
- Underground mining
- Above ground mining
- Steel plants
- Power plants
- Hard rock quarries
- Tunnelling
- Ports
## Cover grades

<table>
<thead>
<tr>
<th>Grade</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>W</td>
<td>anti-abrasive cover with good mechanical properties</td>
</tr>
<tr>
<td>X</td>
<td>abrasion and cut resistant cover for sharp-edged or lumpy material, highest requirements</td>
</tr>
<tr>
<td>Y</td>
<td>cover with good mechanical properties for standard applications</td>
</tr>
<tr>
<td>K</td>
<td>flame-retardant and anti-static for above ground and underground deployment</td>
</tr>
</tbody>
</table>

Other cover materials and details on request.

<table>
<thead>
<tr>
<th>Belt type</th>
<th>Minimum tensile strength in N/mm</th>
<th>Cord diameter, maximum</th>
<th>Cord pitch ±1.5 (mm)</th>
<th>Minimum cover thickness (mm)</th>
<th>Minimum pulley diameter (mm)</th>
<th>Belt width (mm)</th>
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</thead>
<tbody>
<tr>
<td>ST 500</td>
<td>500</td>
<td>2.6</td>
<td>14</td>
<td>3</td>
<td>400</td>
<td>650 800 1000 1200 1400 1600 1800 2000 2200 2400</td>
</tr>
<tr>
<td>ST 560</td>
<td>560</td>
<td>2.8</td>
<td>14</td>
<td>3</td>
<td>500</td>
<td>650 800 1000 1200 1400 1600 1800 2000 2200 2400</td>
</tr>
<tr>
<td>ST 630</td>
<td>630</td>
<td>3.0</td>
<td>14</td>
<td>3</td>
<td>500</td>
<td>650 800 1000 1200 1400 1600 1800 2000 2200 2400</td>
</tr>
<tr>
<td>ST 710</td>
<td>710</td>
<td>3.1</td>
<td>14</td>
<td>3</td>
<td>500</td>
<td>650 800 1000 1200 1400 1600 1800 2000 2200 2400</td>
</tr>
<tr>
<td>ST 800</td>
<td>800</td>
<td>3.3</td>
<td>14</td>
<td>3</td>
<td>630</td>
<td>650 800 1000 1200 1400 1600 1800 2000 2200 2400</td>
</tr>
<tr>
<td>ST 900</td>
<td>900</td>
<td>3.8</td>
<td>15</td>
<td>3</td>
<td>630</td>
<td>650 800 1000 1200 1400 1600 1800 2000 2200 2400</td>
</tr>
<tr>
<td>ST 1000</td>
<td>1000</td>
<td>4.1</td>
<td>12</td>
<td>4</td>
<td>630</td>
<td>650 800 1000 1200 1400 1600 1800 2000 2200 2400</td>
</tr>
<tr>
<td>ST 1250</td>
<td>1250</td>
<td>4.9</td>
<td>14</td>
<td>4</td>
<td>800</td>
<td>650 800 1000 1200 1400 1600 1800 2000 2200 2400</td>
</tr>
<tr>
<td>ST 1600</td>
<td>1600</td>
<td>5.6</td>
<td>15</td>
<td>4</td>
<td>800</td>
<td>650 800 1000 1200 1400 1600 1800 2000 2200 2400</td>
</tr>
<tr>
<td>ST 2000</td>
<td>2000</td>
<td>5.6</td>
<td>12</td>
<td>4</td>
<td>1000</td>
<td>650 800 1000 1200 1400 1600 1800 2000 2200 2400</td>
</tr>
<tr>
<td>ST 2500</td>
<td>2500</td>
<td>7.2</td>
<td>15</td>
<td>5</td>
<td>1250</td>
<td>650 800 1000 1200 1400 1600 1800 2000 2200 2400</td>
</tr>
<tr>
<td>ST 3150</td>
<td>3150</td>
<td>8.1</td>
<td>15</td>
<td>5.5</td>
<td>1250</td>
<td>650 800 1000 1200 1400 1600 1800 2000 2200 2400</td>
</tr>
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<td>ST 3500</td>
<td>3500</td>
<td>8.6</td>
<td>15</td>
<td>5.5</td>
<td>1400</td>
<td>650 800 1000 1200 1400 1600 1800 2000 2200 2400</td>
</tr>
<tr>
<td>ST 4000</td>
<td>4000</td>
<td>8.9</td>
<td>15</td>
<td>6.5</td>
<td>1600</td>
<td>650 800 1000 1200 1400 1600 1800 2000 2200 2400</td>
</tr>
<tr>
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<td>4500</td>
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<td>16</td>
<td>7</td>
<td>1600</td>
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<td>ST 5000</td>
<td>5000</td>
<td>10.9</td>
<td>17</td>
<td>7.5</td>
<td>1600</td>
<td>650 800 1000 1200 1400 1600 1800 2000 2200 2400</td>
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<tr>
<td>ST 5400</td>
<td>5400</td>
<td>11.3</td>
<td>17</td>
<td>8</td>
<td>1600</td>
<td>650 800 1000 1200 1400 1600 1800 2000 2200 2400</td>
</tr>
<tr>
<td>ST 5600</td>
<td>5600</td>
<td>11.8</td>
<td>19</td>
<td>8</td>
<td>1600</td>
<td>650 800 1000 1200 1400 1600 1800 2000 2200 2400</td>
</tr>
<tr>
<td>ST 6300</td>
<td>6300</td>
<td>12.8</td>
<td>20</td>
<td>8.5</td>
<td>1600</td>
<td>650 800 1000 1200 1400 1600 1800 2000 2200 2400</td>
</tr>
</tbody>
</table>

Number of cords

Go to [www.germanBelt.com](http://www.germanBelt.com)
**germanBelt® chevron belts**

Better performance through optimised profile heights

The 17 mm and 35 mm high profiles were designed to meet the specific requirements of steep angle transport.

- **OPTIMISED PROFILE HEIGHTS**
- **OPTIMISED MATERIALS HANDLING PROCESS**
- **SIGNIFICANT COST BENEFITS**
- **WIDE RANGE OF APPLICATION**
- **HIGH RELIABILITY**

### Cover grades

<table>
<thead>
<tr>
<th>Grade</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>W</td>
<td>anti-abrasive cover with good mechanical properties</td>
</tr>
<tr>
<td>X</td>
<td>abrasion and cut resistant cover for sharp-edged or lumpy material, highest requirements</td>
</tr>
<tr>
<td>Y</td>
<td>cover with good mechanical properties for standard applications</td>
</tr>
<tr>
<td>G</td>
<td>transport under conditions affected by oil or fat</td>
</tr>
</tbody>
</table>

Other cover materials and details on request.

---

### Chevron Typ GB 330

**Profile height: 17 mm**

<table>
<thead>
<tr>
<th>W (mm)</th>
<th>C (mm)</th>
<th>P (mm)</th>
<th>L (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>35</td>
<td>250</td>
<td>120</td>
</tr>
<tr>
<td>500</td>
<td>85</td>
<td>250</td>
<td>120</td>
</tr>
<tr>
<td>650</td>
<td>160</td>
<td>250</td>
<td>120</td>
</tr>
</tbody>
</table>

**Standard design:**
- EP 250/2  3.0 mm + 1.5 mm
- EP 400/3  4.0 mm + 2.0 mm

Other designs on request.
Chevron Typ GB 510

Profile height: 17 mm

<table>
<thead>
<tr>
<th>W (mm)</th>
<th>C (mm)</th>
<th>P (mm)</th>
<th>L (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>650</td>
<td>70</td>
<td>250</td>
<td>120</td>
</tr>
<tr>
<td>800</td>
<td>145</td>
<td>250</td>
<td>120</td>
</tr>
<tr>
<td>1000</td>
<td>245</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Standard design:
EP 250/2 3.0 mm + 1.5 mm
EP 400/3 4.0 mm + 2.0 mm

Other designs on request.

Chevron Typ GB 810

Profile height: 17 mm

<table>
<thead>
<tr>
<th>W (mm)</th>
<th>C (mm)</th>
<th>P (mm)</th>
<th>L (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td>95</td>
<td>250</td>
<td>120</td>
</tr>
<tr>
<td>1200</td>
<td>195</td>
<td>250</td>
<td>120</td>
</tr>
</tbody>
</table>

Standard design:
EP 400/3 4.0 mm + 2.0 mm
EP 500/4 4.0 mm + 2.0 mm
EP 630/4 5.0 mm + 2.0 mm

Other designs on request.
Chevron Typ GB 1110

Profile height: 17 mm

<table>
<thead>
<tr>
<th>W (mm)</th>
<th>C (mm)</th>
<th>P (mm)</th>
<th>L (mm)</th>
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<tr>
<td>1200</td>
<td>45</td>
<td>250</td>
<td>120</td>
</tr>
<tr>
<td>1400</td>
<td>145</td>
<td>250</td>
<td>120</td>
</tr>
<tr>
<td>1500</td>
<td>195</td>
<td>250</td>
<td>120</td>
</tr>
</tbody>
</table>

Standard design:
- EP 400/3 4.0 mm + 2.0 mm
- EP 500/4 4.0 mm + 2.0 mm
- EP 630/4 5.0 mm + 2.0 mm

Other designs on request.

Chevron Typ GB 600 HC

Profile height: 35 mm

<table>
<thead>
<tr>
<th>W (mm)</th>
<th>C (mm)</th>
<th>P (mm)</th>
<th>L (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>650</td>
<td>25</td>
<td>330</td>
<td>170</td>
</tr>
<tr>
<td>800</td>
<td>100</td>
<td>330</td>
<td>170</td>
</tr>
<tr>
<td>1000</td>
<td>200</td>
<td>330</td>
<td>170</td>
</tr>
</tbody>
</table>

Standard design:
- EP 400/3 4.0 mm + 2.0 mm
- EP 500/4 4.0 mm + 2.0 mm
- EP 630/4 5.0 mm + 2.0 mm

Other designs on request.
**Chevron Typ GB 850 HC**

Profile height: 35 mm

<table>
<thead>
<tr>
<th>W (mm)</th>
<th>C (mm)</th>
<th>P (mm)</th>
<th>L (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td>75</td>
<td>330</td>
<td>170</td>
</tr>
<tr>
<td>1200</td>
<td>175</td>
<td>330</td>
<td>170</td>
</tr>
</tbody>
</table>

Standard design:

EP 400/3 4.0 mm + 2.0 mm  
EP 500/4 4.0 mm + 2.0 mm  
EP 630/4 5.0 mm + 2.0 mm  

Other designs on request.

---

**Chevron Typ GB 1100 HC**

Profile height: 35 mm

<table>
<thead>
<tr>
<th>W (mm)</th>
<th>C (mm)</th>
<th>P (mm)</th>
<th>L (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1200</td>
<td>45</td>
<td>330</td>
<td>170</td>
</tr>
<tr>
<td>1400</td>
<td>145</td>
<td>330</td>
<td>170</td>
</tr>
<tr>
<td>1500</td>
<td>195</td>
<td>330</td>
<td>170</td>
</tr>
</tbody>
</table>

Standard design:

EP 400/3 4.0 mm + 2.0 mm  
EP 500/4 4.0 mm + 2.0 mm  
EP 630/4 5.0 mm + 2.0 mm  

Other designs on request.
General view

Services

- Installing conveyor belts with self-supporting mobile equipment — worldwide
- Installing conveyor belts and wear protection materials — worldwide
- Engineering and advice
- Training of workers on installing conveyor belts
- Assignment of supervisors — worldwide
- International emergency stand-by and damage elimination
- Repairs on conveyors — worldwide

Conveyor belts

- Rubber conveyor belts with fabric reinforcements according to DIN 22102
  - With special covers
    - Heat resistant
    - According to FDA-standards
    - Flame retardant
    - High abrasion resistant
  - With patterned surface for inclining conveying
    - Chevron belts with cleats 17 to 35mm high
    - Roughtop belts
  - With special carcasses
    - Crossrigid conveyor belts
    - Bare back conveyor belts up to 3,000 mm width
    - Conveyor belts with steel and textile breakers

- Steel cord belts according to DIN 22131
  - With special covers
    - Dirt repellent
    - Self-extinguishing
    - Flame retardant
    - High abrasion resistant

- Elevator belts
- Pipe conveyors
- Filter belts
- Chain belts for the recycling industry
- Corrugated sidewall belts with edges up to 300 mm height
  - With fabric reinforcements
  - With steel cord carcasses

- Magnet belts
- Plastic conveyor belts
  - With various covers, e.g. PVC, PU, silicone, Teflon
  - With various surface structures, e.g. roughtop, negative pyramid, nap pattern
  - With special carcasses, e.g. crossrigid, sliding belts
  - With welded-on profiles, e.g. cleats, guiding wedge ridge, corrugated sidewalls
  - With modular structure
Metal conveyor belts
- Wire mesh belts
- Eyelink belts
- Special wirelink belts
- Plate conveyors

Accessories and systems

- Covering systems for conveyors
  - Galvanised steel
  - Polyester fiberglass
- Rubber scraper and skirting (germanLine®)
- Drive motors and gears
- Impact bars and wear resistant components (germanShock®)
- Elevator buckets and accessories
- Deflection discs (germanWell®)
- Belt guiding systems (germanLine®)
- Splicing and repair materials for conveyor belts (germanBond®)
- Rubber profiles (germanWell®)
  - Cleats up to 280 mm height
  - Sidewalls up to 300 mm height
  - Guiding wedge ridges
- Small conveyors and feeding conveyors for bulk material and piece-goods
- Mechanical fasteners
- Screening panels
  - Wire screens
  - Rubber screens
  - Polyurethane screens
  - Accessories for screening machines
- Pulleys (germanBelt® Steel)
  - Drive pulleys
  - Link pulleys
  - Bend pulleys
  - Snub pulleys
- Pulley lagging materials, smooth and patterned (germanGrip®)
  - Rubber
  - Ceramics
  - Polyurethane
- Idlers and idler sets (germanBelt® Steel)
- Wear resistant materials (germanLine®)
  - Rubber
  - Ceramics
  - Polyurethane
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