The Energy Saving Concept

Less power consumption
Lower operating costs
Ammeraal Beltech is a leading manufacturer of process and conveyor belting with a long reputation for developing innovative solutions for belting applications.

To ensure that belts run efficiently on conveyor systems, Ammeraal Beltech presents a series of belts that offer the potential of a considerable energy reduction. The belt selection is a very important factor in saving energy, but not the only one. Three main factors influence the power demands of a conveyor: the motor efficiency, the conveyor design and the belt selection. Ammeraal Beltech therefore developed the 'Energy Saving Concept'.

Factors for power consumption
Achieving optimum energy savings is the result of minimizing unnecessary operation, friction and resistance to forward motion in the system to the greatest possible extent.

In conveyor systems, the influence of three basic factors must be considered:
- Conveyor design and component specification
- Drive sizing and mechanical efficiency
- Conveyor belt design properties and characteristics

System designs featuring the right belt, driven using an efficient drive design on a compatible conveyor frame, often achieve potential reductions in energy consumption between 25% to 40%, when compared to conveyors using traditional designs and component technology.

**Within the Energy Saving Concept, Ammeraal Beltech recommends the following Energy Saving Belts in order to achieve reduction of energy consumption.**

<table>
<thead>
<tr>
<th>Technical data Energy Saving Belts</th>
<th>Flexam EX 10/2 0+05 black M2 AS FR</th>
<th>Flexam EX 10/2 0+07 black M2 AS FR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Article code</td>
<td>574601</td>
<td>574711</td>
</tr>
<tr>
<td>Indication of application</td>
<td>horizontal transport</td>
<td>horizontal transport</td>
</tr>
<tr>
<td>Belt thickness</td>
<td>2.5 mm</td>
<td>2.5 mm</td>
</tr>
<tr>
<td>Hardness</td>
<td>80 Shore A</td>
<td>95 Shore A</td>
</tr>
<tr>
<td>Weight</td>
<td>2.9 kg/m²</td>
<td>2.9 kg/m²</td>
</tr>
<tr>
<td>Surface finish</td>
<td>M2 Fine matt profile</td>
<td>M2 Fine matt profile</td>
</tr>
<tr>
<td>Execution bottomside</td>
<td>bare fabric</td>
<td>bare fabric</td>
</tr>
<tr>
<td>Coefficient of friction to steel</td>
<td>0.17</td>
<td>0.17</td>
</tr>
</tbody>
</table>
**Less power consumption**
**Lower operating costs**

<table>
<thead>
<tr>
<th>CONVEYOR DESIGN</th>
<th>Lower power consumption; efficient operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>» Existing systems are often inefficient due to overdesign</td>
<td></td>
</tr>
<tr>
<td>» Simplify the design to reduce (moving) component parts causing friction</td>
<td></td>
</tr>
<tr>
<td>» Pay attention to the combination belt and belt support for lowest friction</td>
<td></td>
</tr>
<tr>
<td>» Avoid heavy drums, pulleys and rollers</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AMMERAAL BELTECH BELT SELECTION</th>
<th>Suitable for light conveyor design</th>
</tr>
</thead>
<tbody>
<tr>
<td>» Existing belts are often too heavy, they should be lightweight and flexible</td>
<td></td>
</tr>
<tr>
<td>» Highly flexible, low weight allows for smaller lighter pulleys</td>
<td></td>
</tr>
<tr>
<td>» No belt stretch; longer conveyor lines possible with longer conveyors and less drives</td>
<td></td>
</tr>
<tr>
<td>» Avoid overtension, apply the correct belt tension</td>
<td></td>
</tr>
<tr>
<td>» Very low friction fabric underside reduces surface resistance</td>
<td></td>
</tr>
<tr>
<td>» Low decibel noise construction, level approx. 3 dB lower than conventional belting</td>
<td></td>
</tr>
<tr>
<td>» Proven track record at airport and logistics centres worldwide</td>
<td></td>
</tr>
<tr>
<td>» Standard belt range exhibits low energy characteristics similar to that of specially developed energy saving belts</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MOTOR DRIVE SYSTEM</th>
<th>Maximum efficiency gain</th>
</tr>
</thead>
<tbody>
<tr>
<td>» Accurate resizing</td>
<td></td>
</tr>
<tr>
<td>» Select the right type and size motor</td>
<td></td>
</tr>
<tr>
<td>» Avoid unnecessary operation; install motion control devices</td>
<td></td>
</tr>
</tbody>
</table>

Using Energy Saving Belts in conjunction with conveyor design enhancement and component improvements yields potential energy savings between 25% to 40% compared to conventional technology.

The belts can be identified by the Energy Saving logo.

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**Flexam EX 10/2 0+A32**
black AS FR

<table>
<thead>
<tr>
<th>Article code</th>
<th>Belt type</th>
<th>Indication of application</th>
<th>Belt thickness</th>
<th>Hardness</th>
<th>Weight</th>
<th>Surface finish</th>
<th>Execution</th>
<th>Coefficient of friction to steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>578812</td>
<td>Flexam EX 10/2 0+A32 black AS FR</td>
<td>horizontal transport</td>
<td>2.5 mm</td>
<td>80 Shore A</td>
<td>2.9 kg/m²</td>
<td>M2 Fine matt profile</td>
<td>bare fabric</td>
<td>0.17</td>
</tr>
</tbody>
</table>

**Flexam EX 10/2 0+A42**
black AS FR

<table>
<thead>
<tr>
<th>Article code</th>
<th>Belt type</th>
<th>Indication of application</th>
<th>Belt thickness</th>
<th>Hardness</th>
<th>Weight</th>
<th>Surface finish</th>
<th>Execution</th>
<th>Coefficient of friction to steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>572652</td>
<td>Flexam EX 10/2 0+A42 Supergrip wave profile black AS FR</td>
<td>inclined / declined</td>
<td>4.7 mm</td>
<td>55 Shore A</td>
<td>4.5 kg/m²</td>
<td>A42 Supergrip wave profile</td>
<td>bare fabric</td>
<td>0.17</td>
</tr>
</tbody>
</table>

*AS = antistatic, FR = flame retardant*
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