Helping DRIVE Energy Efficiency

Ammeraal Beltech’s Energy Saving Concept

Less power consumption – Lower operating costs

www.ammeraalbeltech.com
Ammeraal Beltech is a leading manufacturer of process and conveyor belting with a 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: motor efficiency, conveyor design and the belt selection. Ammeraal Beltech therefore developed its ‘Energy Saving Concept’.

Factors for power consumption
Optimum energy savings are achieved by minimizing unnecessary operations and by limiting 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 notable reductions in energy consumption compared to conveyors using traditional designs and component technology.

Within the Energy Saving Concept, Ammeraal Beltech recommends the following Energy Saving Belts for Airport and Logistics Industry in order to achieve reduction of power consumption.

<table>
<thead>
<tr>
<th>Technical data Energy Saving Belts</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Belt type</strong></td>
</tr>
<tr>
<td>Flexam EX 10/2 0+05</td>
</tr>
<tr>
<td>black M2 AS FR</td>
</tr>
<tr>
<td>Flexam EX 10/2 0+07</td>
</tr>
<tr>
<td>black M2 AS FR</td>
</tr>
<tr>
<td>Article code</td>
</tr>
<tr>
<td>57461</td>
</tr>
<tr>
<td>574711</td>
</tr>
<tr>
<td>Indication of application</td>
</tr>
<tr>
<td>horizontal transport</td>
</tr>
<tr>
<td>horizontal transport</td>
</tr>
<tr>
<td>Belt thickness</td>
</tr>
<tr>
<td>2.5 mm</td>
</tr>
<tr>
<td>2.5 mm</td>
</tr>
<tr>
<td>Hardness</td>
</tr>
<tr>
<td>80 Shore A</td>
</tr>
<tr>
<td>95 Shore A</td>
</tr>
<tr>
<td>Weight</td>
</tr>
<tr>
<td>2.9 kg/m²</td>
</tr>
<tr>
<td>2.9 kg/m²</td>
</tr>
<tr>
<td>Surface finish</td>
</tr>
<tr>
<td>M2 Fine matt profile</td>
</tr>
<tr>
<td>M2 Fine matt profile</td>
</tr>
<tr>
<td>Execution bottomsie</td>
</tr>
<tr>
<td>bare fabric</td>
</tr>
<tr>
<td>bare fabric</td>
</tr>
<tr>
<td>Coefficient of friction to steel</td>
</tr>
<tr>
<td>0.17</td>
</tr>
<tr>
<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 friction caused by component parts</td>
<td></td>
</tr>
<tr>
<td>» Pay close attention to the combination belt and belt support for lowest friction</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 belts allow smaller pulleys</td>
<td></td>
</tr>
<tr>
<td>» Low belt stretch; longer conveyor lines possible with longer conveyors and less drives</td>
<td></td>
</tr>
<tr>
<td>» Always 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 of motor</td>
<td></td>
</tr>
<tr>
<td>» Avoid unnecessary operation; install motion control devices</td>
<td></td>
</tr>
</tbody>
</table>

Ammeraal Beltech helps its customers design more energy efficient conveying solutions.
Contact us to find out how we can help you achieve energy savings too.

The belts can be identified by the Energy Saving logo

<table>
<thead>
<tr>
<th>Flexam EX 10/2 0+A32 black AS FR</th>
<th>Flexam EX 10/2 0+A42 black AS FR</th>
</tr>
</thead>
<tbody>
<tr>
<td>578812</td>
<td>572652</td>
</tr>
<tr>
<td>inclined / declined</td>
<td>inclined / declined</td>
</tr>
<tr>
<td>2.8 mm</td>
<td>4.7 mm</td>
</tr>
<tr>
<td>40 Shore A</td>
<td>55 Shore A</td>
</tr>
<tr>
<td>2.9 kg/m²</td>
<td>4.5 kg/m²</td>
</tr>
<tr>
<td>A32 Fine rib profile</td>
<td>A42 Supergrip wave profile</td>
</tr>
<tr>
<td>bare fabric</td>
<td>bare fabric</td>
</tr>
<tr>
<td>0.17</td>
<td>0.17</td>
</tr>
</tbody>
</table>

AS = antistatic, FR = flame retardant
Get in touch with your nearest Ammeraal Beltech sales office or visit www.ammeraalbeltech.com to locate your local service centre, and we’ll be glad to help.

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