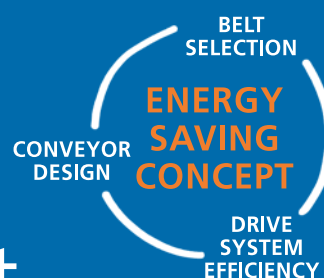


## Helping DRIVE Energy Efficiency



# Ammeraal Beltech's Energy Saving Concept



Less power consumption – Lower operating costs

# Reliable and long lasting Energy Efficient Conveying Solutions



**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'.

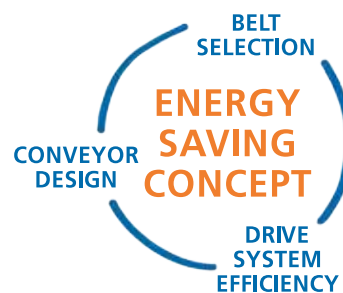
### Factors for power consumption

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.



**The Ammeraal Beltech Energy Saving Concept assists in finding the best energy reducing solution for your conveyor**

*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.*



### Technical data Energy Saving Belts

	Flexam EX 10/2 0+05 black M2 AS FR	Flexam EX 10/2 0+07 black M2 AS FR
Belt type	Flexam EX 10/2 0+05 black M2 AS FR	Flexam EX 10/2 0+07 black M2 AS FR
Article code	574601	574711
Indication of application	horizontal transport	horizontal transport
Belt thickness	2.5 mm	2.5 mm
Hardness	80 Shore A	95 Shore A
Weight	2.9 kg/m <sup>2</sup>	2.9 kg/m <sup>2</sup>
Surface finish	M2 Fine matt profile	M2 Fine matt profile
Execution bottomsides	bare fabric	bare fabric
Coefficient of friction to steel	0.17	0.17

# Less power consumption

## Lower operating costs

<b>CONVEYOR DESIGN</b>	<ul style="list-style-type: none"> <li>» Existing systems are often inefficient due to overdesign</li> <li>» Simplify the design to reduce friction caused by component parts</li> <li>» Pay close attention to the combination belt and belt support for lowest friction</li> </ul>	<b>Lower power consumption; efficient operation</b>
<b>AMMERAAL BELTECH BELT SELECTION</b>	<ul style="list-style-type: none"> <li>» Existing belts are often too heavy, they should be lightweight and flexible</li> <li>» Highly flexible low weight belts allow smaller pulleys</li> </ul>	<b>Suitable for light conveyor design</b>
	<ul style="list-style-type: none"> <li>» Low belt stretch; longer conveyor lines possible with longer conveyors and less drives</li> <li>» Always apply the correct belt tension</li> </ul>	<b>Less energy consumption; low bearing resistance</b>
	<ul style="list-style-type: none"> <li>» Very low friction fabric underside reduces surface resistance</li> </ul>	<b>Reduced energy consumption</b>
	<ul style="list-style-type: none"> <li>» Low decibel noise construction, level approx. 3 dB lower than conventional belting</li> </ul>	<b>Assists in achieving standards for workplaces</b>
	<ul style="list-style-type: none"> <li>» Proven track record at airport and logistics centres worldwide</li> <li>» Standard belt range exhibits low energy characteristics similar to that of specially developed energy saving belts</li> </ul>	<b>Proven technology</b>
<b>MOTOR DRIVE SYSTEM</b>	<ul style="list-style-type: none"> <li>» Accurate resizing</li> <li>» Select the right type and size of motor</li> <li>» Avoid unnecessary operation; install motion control devices</li> </ul>	<b>Maximum efficiency gain</b>

**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



<b>Flexam EX 10/2 0+A32 black AS FR 578812</b>	<b>Flexam EX 10/2 0+A42 black AS FR 572652</b>
inclined / declined	inclined / declined
2.8 mm	4.7 mm
40 Shore A	55 Shore A
2.9 kg/m <sup>2</sup>	4.5 kg/m <sup>2</sup>
A32 Fine rib profile	A42 Supergrip wave profile
bare fabric	bare fabric
0.17	0.17

AS = antistatic, FR = flame retardant



## Want to know more? Contact us

Get in touch with your nearest Ammeraal Beltech sales office or visit [www.ammeraalbeltech.com](http://www.ammeraalbeltech.com) to locate your local service centre, and we'll be glad to help.

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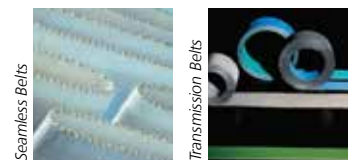
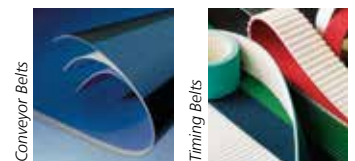
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