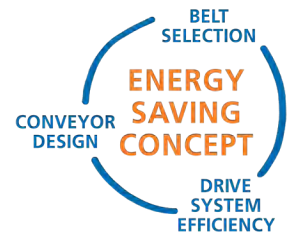


# Energy saving concept

## Helping DRIVE energy efficiency

Ammeraal Beltech's Energy Saving Concept  
Less power consumption – Lower operating costs.



# Reliable and long lasting Energy Efficient Conveying Solutions



## Factors for power consumption

Optimum energy savings are achieved by minimising 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

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.**

## Technical Informations

Article No.	Nomenclature	Belt thickness [mm]	Hardness [shore A]	Weight [kg/m <sup>2</sup> ]	Force at 1% elongation [N/mm]	Temperature [C°]
514065	Ropanol EX 10/2 0+00 black AS FR	2.5		3.0	10	-15 to 80
576610	Flexam EX 10/2 0+01 black AS FR IR	3.0		3.3	10	-15 to 80
574601	Flexam EX 10/2 0+05 black M2 AS FR	2.5	80A	2.9	10	-15 to 80
576601	Flexam EX 10/2 0+05 black M2 AS FR IR	3.5	80A	3.7	10	-15 to 80
578491	Flexam EX 10/2 0+05 black M2 AS	2.1	80A	2.6	10	-15 to 80
574711	Flexam EX 10/2 0+07 black M2 AS FR	2.5	95A	2.9	10	-10 to 80
573230	Flexam EX 10/2 0+10 black AS FR	3.0	80A	3.8	10	-15 to 80
573231	Flexam EX 10/2 0+10 black M2 AS FR	3.0	80A	3.8	10	-15 to 80
574122	Flexam EX 10/2 0+A32 black AS	2.6	35A	2.2	10	-10 to 80
576652	Flexam EX 10/2 0+A32 black AS FR IR	4.0	40A	3.9	10	-15 to 80
578812	Flexam EX 10/2 0+A32 black AS FR	2.8	40A	2.9	10	-15 to 80
572652	Flexam EX 10/2 0+A42 black AS FR	4.7	55A	4.5	10	-15 to 80
574552	Flexam EX 10/2 0+A42 black AS	4.5	35A	3.6	10	-15 to 80
576361	Flexam EX 10/2 00+05 black M2 AS FR/AMD	2.5	80A	2.9	10	-15 to 80
576372	Flexam EX 10/2 00+A32 black AS FR/AMD	2.8	40A	2.9	10	-15 to 80

AS = Antistatic; FR = Flame retardant; IR = Impact resistant; M2 = Matt finish; AMD = AMMdurance

The belts can be identified by the Energy Saving lo

# 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>

Min Flexing diameter [mm]	Standard Width [mm]
40	2020
60	2020
60	2020
60	2020
30	2020
80	2020
60	2020
60	2020
25	2020
60	2020
50	2020
40	2020
40	2020
60	2020
50	2020

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.

In line with our Energy Saving Concept, try our specially designed AMMDurance belt with dry fabric treatment, optimized for even more protection. AMMDurance ensures a more efficient running condition for longer.

Check out our new **AMMDurance brochure!**



## Local Contacts

... and 150 more service contact points  
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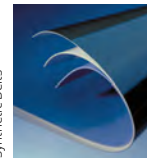
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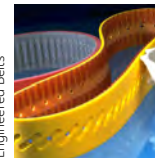
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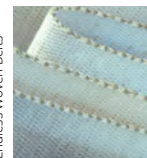
**Expert advice, quality solutions  
and local service  
for all your belting needs**



Synthetic Belts



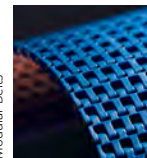
Engineered Belts



Endless Woven Belts



Homogeneous Belts



Modular Belts



Fabrication & Service

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