

PRESS RELEASE



**AMK Arnold Müller
GmbH & Co. KG**

Drives & Controls

Gaußstraße 37-39
D-73230 Kirchheim/Teck

Germany

Tel.: +49 (0)7021/5005-0
Fax: +49 (0)7021/5005-199

info@amk-antriebe.de
www.amk-antriebe.de

Energy-efficient drive systems from AMK – Good for the environment and for the balance sheet.

CO2 emissions, the greenhouse effect and climate change are issues that affect us all. Increased awareness of environmental issues is a powerful argument for saving energy, but so is the constantly rising cost of electricity. As well as helping to reduce CO2 emissions, adopting an environmentally-conscious attitude to energy use also has a positive knock-on effect in terms of cost savings. These factors certainly help explain the trend towards energy-efficient drive systems. AMK spotted this development at an early stage (we are not just talking months, but years ago) and made a definite commitment to developing energy-saving products:

Making intelligent use of direct drives can, for example, save up to 40% of the normal electricity costs. The high power density and overload capacity of AMK motors mean that they are able to meet even the most stringent demands in respect of dynamic performance. Even at a more general level, using direct drives can have a positive impact on costs. Water cooling ensures virtually silent operation. The compact designs take up very little space and the fact that the products are practically maintenance-free and offer long service lives means that the maintenance costs are lower. Another key way of increasing energy efficiency is to adopt a precise approach to the dimensioning process so that the right motor is always selected. Because AMK has over four decades of experience in the motor building industry, its experts will always be able to find the best motor for the application concerned by selecting one from the extensive product portfolio. Thus, customers can rest assured that precious energy will not go to waste as a result of using oversized motors and that ultimately they will see an early return on their investment.

Using regenerative servo drives is an effective way of addressing energy and cost issues, because instead of being absorbed by a braking resistor, the braking energy is recuperated through regenerative braking and fed back into the power system with maximum efficiency. To facilitate the creation of particularly robust systems,



Contact: Gundula Eckhardt

Phone: +49 (0)70 21/50 05-223

Fax: +49 (0)70 21/50 05-199

gundula.eckhardt@amk-antriebe.de

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AMK offers AMKASYN KE/KW compact servo drives featuring harmonic system currents for supply and regenerative feedback. These result in a controlled DC link that is highly unsusceptible to supply faults. What's more, the voltage boost in the DC link makes it possible to achieve a higher drive speed and output.

Increasing energy efficiency in plant and machinery ultimately comes down to one key factor: ensuring that you have the right drive technology and that it is used intelligently. At the end of the day, you can only save time, money and energy if you have the right components working together in perfect harmony. It is here that life cycle costs have to be taken into account. With highly complex plant and machinery, it is not a case of "here today, gone tomorrow" but of "here for the long haul" in view of the increasing demands being imposed in respect of service life. If the issue of "energy efficiency" is considered in terms of the aspects described above, it soon becomes clear that there is an enormous amount of untapped savings potential in much modern plant and equipment. If this can be exploited it is not just the environment that stands to benefit, but the company as well.



Energy-efficient drive systems from AMK

synchronous motor DS 28 with field weakening control for regenerative braking

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