PRESS RELEASE

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Simple & precise – Dunkermotoren and MAE present cost-effective *dGo* control electronics for stepper motors

It is not often the case that product designers and purchasing managers are in agreement on using the same product. However, stepper motors with the new ***dGo*** drive electronics from Dunkermotoren and MAE, both AMETEK brands, have succeeded in doing so.

Designers like the compact construction combined with high torque and simple, precise control. Purchasing managers are pleased with the low costs.

For a long time, stepper motors have not been very popular. The mechanical design, speed, overload, and noise requirements have often been the excluding criteria. Thanks to sophisticated algorithms, these restrictions are now compensated electronically so that stepper motors are currently experiencing a true renaissance. Dunkermotoren and MAE offer a new drive solution in this field, which impresses with its performance and simple controls.

The Dunkermotoren ***dGo*** control electronics for the MAE motors in sizes NEMA 17, 23 and 34 are controlled via one frequency signal for the speed and one direction signal (Step & Direction). A simple frequency generator on the customer´s side is enough to set speeds with a ratio of more than 10,000:1! And all without having to compromise on positioning accuracy. Electronic microstepping allows up to 12,800 preset positions per revolution.

If no movement is required, the electronics reduce the operating current to compensate for the weaknesses of conventional stepper motor controls. Further algorithms ensure, e.g., a very silent operation, especially at low speeds. Even the problem of unnoticed step loss in the event of an unnoticed overload, which was a "spectre" formerly, is now solved thanks to the electronic step loss detection.

The application area of the new ***dGo*** control electronics for stepper motors ranges from precise dosing pumps, gantry, or pick & place systems to packaging and labeling devices. The new

electronics show their strengths especially in the field of device construction, where compact design and simple controls are essential.. This is how new products in industrial manufacturing, equipment manufacturing, medical technology, and intralogistics can reap major benefit.

As with all Dunkermotoren products, the combination of the MAE stepper motor with ***dGo*** electronics is supplemented with matching gearboxes, encoders, and brakes thanks to the innovative Dunkermotoren modular system. For maximum flexibility in configuring and providing customized designs, all components are completely developed and produced in-house in Europe. This flexibility satisfies not only purchasing managers and product designers but makes end customers happy as well.

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