Media Contact:
Shane Novacek
Beckhoff Automation
Phone: 952-808-6515
s.novacek@beckhoff.com
LinkedIN | Twitter: @BeckhoffUSA

Note to editors: Link to high res photo and picture caption follow news release text.

Highly Dynamic AL8000 Linear Motors Provide Flexible, Modular Design

The new high-performance linear motor series from Beckhoff offers wide-ranging options in length, winding and cooling type

SAVAGE, Minnesota, October 29, 2020 – Backed by its wealth of expertise in the development of rotary servomotors, Beckhoff has added an innovative product to its portfolio in the area of drive technology. The AL8000 series, a new generation of high-performance and modular linear motors, was developed in cooperation with Fertig Motors, the dynamically growing Beckhoff subsidiary.

The new AL8000 product family is based on a modular system design consisting of linear motors and magnetic plates. Users can choose between three widths: 50 mm (AL8x2x), 80 mm (AL8x4x) and 130 mm (AL8x6x). In addition, each width category offers a broad range of different linear motor types in terms of overall length, type of winding and cooling type. The standard product portfolio therefore contains a total of 28 different linear motor types for implementing highly dynamic and powerful linear axes to suit specific application requirements. Depending on the size of the linear motor, peak forces of 120 to 6,750 N are possible as well as maximum speeds of up to 12 m/s.

Like the established AM8000 rotary servomotors, Beckhoff fully developed and manufactured the AL8000 family of linear motors in Germany. A consistently high level of production quality is therefore guaranteed as well as high availability and short supply chains for realizing durable and highly reliable applications with linear motor technology. Further advantages include

outstanding service and support, ensuring fast and flexible fulfillment of customer requirements.

Modular coil design

In keeping with the modular system principle, the entire linear motor coil part is composed of identical individual segments. This construction is especially favorable from a production perspective: Depending on which linear motor is ordered, the production process can be adapted quickly and easily to accommodate the relevant number of segments.

Another advantage is the precisely symmetrical structure of the linear motors. There are uniform intervals between the mounting holes of the linear motors throughout the entire AL8000 series. This makes it easier for machine builders to construct the machine slide and ensures consistent force and temperature distribution within the motor without critical hot spots.

AL8000 Linear Motor

Link to high res image:

https://download.beckhoff.com/download/press/2020/NorthAmerica/Beckhoff_AL8000_linear_motors.zip

Press picture:

Picture caption:
With an optimized product design and modular coil concept, new AL8000 series linear motors from Beckhoff achieve high peak forces in the smallest mounting spaces.

Beckhoff Automation is a provider of advanced and open automation solutions based upon proven technologies for customers to implement high performance control systems faster and at a lower overall cost than traditional PLC and motion control systems. Beckhoff's "New Automation Technology" product range includes PC-based control, Industrial PCs, automation controllers, operator interfaces, I/O, servo drives and motors. With representation in more than 60 countries, Beckhoff is well positioned to provide global sales and service to its customers. Beckhoff sales and service are handled directly, with no intermediaries involved for exceptional customer service and consultation.

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Send questions regarding "Beckhoff AL8000 Linear Motors" to:

Beckhoff Automation LLC
13130 Dakota Ave
Savage, MN 55378
Toll-free: 1-877-TwinCAT
Local: 952-890-0000
Fax: 952-890-2888
Email: beckhoff.usa@beckhoff.com
www.beckhoffautomation.com
LinkedIN | Twitter: @BeckhoffUSA