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

## **Beckhoff AA3000 Electric Cylinders Provide Precise, Energy-efficient Motion**

*With advantages of modern servo technology, the AA3000 line combines high power and dynamics as an alternative to pneumatics*

SAVAGE, Minnesota, Jan. 20, 2022 – The new AA3000 series electric cylinders from Beckhoff are ideally suited as direct drives for linear motion applications with high process forces and speeds. The series offers optimal force, dynamics and a compact footprint combined with the advantages of servo technology, such as closed-loop positioning, safe positioning at a standstill and high energy efficiency.

The integrated mechanism – composed of precise roller bearings, ball screw and guide – provides backlash-free, purely translatable motion. Furthermore, this results in very compact dimensions. The shaft end of the spindle features an external thread to mount conventional adapters, such as ball heads or clamping hooks typically used with pneumatic/hydraulic devices.

The first product of the new series is the AA3033 electric cylinder, which is offered in two variants:

- 12,500 N peak force, 3,700 N continuous force and 0.5 m/s maximum speed.
- 6,250 N peak force, 1,850 N continuous force and 1.0 m/s maximum speed.

### **Standard mechanical mounting, enhanced performance and efficiency**

The flange size of the electric cylinder is based on ISO 15552 and has bolting points on both sides in case, for example, an application requires a swivel

bolt connection. This compatibility makes the conversion from pneumatic to electric drive technology particularly easy.

Beyond high resolution, the safe 24-bit multiturn encoder offers the advantages of One Cable Technology (OCT) and an electronic identification plate for fast and simple commissioning. In addition, the AA3000 electric cylinder series simplifies access to process data: TwinCAT 3 automation software automatically configures position travel limits and known position offset for the encoder after reading in the nameplate. These capabilities help engineers optimize performance quickly and easily. Other spindle pitches and a backlash-free holding brake are also available as options.

[AA3000 electric cylinders](#)

**Link to high-res image:**

[https://download.beckhoff.com/download/press/2022/NorthAmerica/Beckhoff\\_AA3000\\_images.zip](https://download.beckhoff.com/download/press/2022/NorthAmerica/Beckhoff_AA3000_images.zip)

**Press picture:**



**Picture caption:**

The new AA3000 series electric cylinders from Beckhoff can replace energy-intensive pneumatic cylinders and offer the improved dynamics, precision and functionality of servo technology.

*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 75 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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