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

Beckhoff Smart System Diagnosis (B/SSD) Boosts Predictive Maintenance for AM8000 Servomotors *Easily monitor system and motor status in real-time without extra sensors or cables*

SAVAGE, Minnesota, February 17, 2026 – As an optional but powerful predictive maintenance feature, Beckhoff Smart System Diagnosis (B/SSD) establishes real-time monitoring for effective predictive maintenance in motion control systems and machines overall. B/SSD can now be integrated into the AM8000, AM8300, AM8500, AM8700, and AM8800 servomotor series from Beckhoff.

Precise in-motor measurement of vibration, humidity, and temperature provides the basis for statistical evaluation of system health with TwinCAT Analytics software, enabling effective predictive maintenance. This enables continuous monitoring of machine conditions and processes with timely interventions to ensure efficient operation and maximum machine uptime. Built into proven One Cable Technology (OCT) available on AM8000 servomotors, B/SSD requires no additional sensors or sensor cables, keeping the wiring work similar to that of a standard motor.

Vibration measurements can be performed as an average value (RMS), with peak values, or statistically (kurtosis) up to +/-50 g. This covers detection for bearing and gearbox damage, imbalance, misalignments, various shocks and

impacts, and more. B/SSD also offers temperature monitoring from -40 to 125 °C and humidity monitoring from 0 to 100%.

With full B/SSD integration in TwinCAT Analytics, both live data and historical data can be recorded, clearly visualized, and processed into valuable, dashboard-ready information for machine optimization.

www.beckhoff.com/b-ssd

www.beckhoff.com/twincat-analytics

Link to high-res photo:

http://www.beckhoff.com/media/downloads/press/2026/pr032026_beckhoff_us.zip

Press picture:



Picture caption:

Beckhoff Smart System Diagnosis (B/SSD) facilitates effective predictive maintenance with minimal effort, reducing downtime and keeping operations at peak productivity.

At Beckhoff, automation is our calling. We empower engineers to differentiate and succeed as industry leaders – to harness new technologies, embrace open standards, and solve the world's most complex problems. Founded and led by engineers, we organically create advanced controls, communication, IoT, and motion technologies that become unique tools for your one-of-a-kind challenges in an age of digital transformation. As a global partner with U.S. headquarters in Minneapolis, we remain committed to sustainability, inclusivity, and support for the people behind the automation. So whether

you're powering the EV revolution, dazzling on Broadway, launching satellites, or harnessing the wind – you can reach new heights for your business, industry, and humankind.

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Please send questions regarding “Beckhoff Smart System Diagnosis (B/SSD)” to:

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